NetAgent

UPS SNMP Agent

User’s Manual

User Guide for the NetAgent

Version 5.0

Firmware version 2.40

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Chapter1. Introduction

Section1. Features

NetAgent is a new generation SNMP (Simple Network Management Protocol) monitoring product. Not only could remote control the UPS and get the current status of it, the NetAgent II –3Ports also could provide other functions, ex. connect to Modem could make the monitoring possible when there is no permanent connection to Internet. The NetAgent II – 3Ports could also been used to connect to 'NetFeeler Lite', to get the temperature, humidity and water conditions. To get the condition of Smoke detector, Gas detector, door and window detector will also be possible.

This product is for "Contact Closure" and "RS232" interface UPS. The communication protocol includes the Contact Closure, RS232[MegaTec], RS232[Phoenixtec], SEC 2400, SEC 9600, Three Phase, Powerware, Smart APC, EMERSON. And user could also provide their own protocol to build in. NetAgent provides a simple and easy installation procedure. User only needs to install the software of NetAgent CD on a Windows environment to configure the IP address. All the other configurations could be accomplished in a Web browser.

NetAgent also provides shutdown utility for different operating systems. It could send out the shutdown command in different conditions. These conditions include the AC power failure, Battery Low, Over Loading, Over Temperature and scheduled shutdown. User could configure these conditions to initiate a system shutdown event, and to avoid the abnormal power disconnection of the system.

Features:

❶ Provide SNMP MIB to monitor & control UPS

❷ Auto-sense 10M/100M Fast Ethernet

❸ Manage and configure via Telnet, Web Browser or NMS

❹ Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP Protocol

❺ Providing easy setup and upgrade tools via MS-Windows, just a few seconds to finish IP setting, about 1.5 minutes to upgrade firmware.

❻ Sending both of SNMP TRAP and E-mail for events notification.

❼ Auto email daily UPS history report

❽ Send SMS for events notification

❾ Matches with shutdown software to protect computer's file saving and shut down safely

❿ NetAgent II – 3Ports : Environment Measurement (Optional Kits), External modem dial in/out via PPP protocol.

Section2. Applications

2.1 NetAgent makes your UPS on the Internet

When the UPS install the NetAgent, the system manager could check each and every UPS condition by a computer with Browser installed. The manager could monitor and control the UPS by simply input the IP address of the NetAgent which connects to the UPS. When there is a power abnormal condition happeneds, the NetAgent could also send the trap information to the system manager to take proper action.

2.2 NetAgent Provides Shutdown Utilities

When a computer on the network with the NetAgent utility installed, it could locate all the NetAgent on the network. When the UPS of this NetAgent is in AC failure condition or Battery Low condition, the operating system could close all the files on the system, and perform a gracefully shutdown. This could avoid system corrupt when a power disconnection happened.

2.3 NetAgent II for Surrounding Monitoring

3Port NetAgent II could be used to connect the surrounding monitoring utility, NetFeeler Lite, to get the temperature/humidity/smoke/fire signals. These informations could also be revealed on the NetAgent Web page. When there is an abnormal condition happened, it could also be sent as a trap to the system manager.

2.4 When we need the NetAgent?

❶ When we need to remote monitoring and controls the UPS conditions. For example, the system manager could use the Internet to control all the UPS conditions all over the country. When the shutdown utility is installed, the shutdown utility could close all the files and shutdown the system when a power abnormal condition happened.

❷ When we need to monitor surrounding conditions of the machine room, warehouse, office, …etc. For example, the system manager could know the temperature, humidity, smoke and water condition by using the NetAgent II-3Ports version and NetFeeler Lite. The system manager could always know these surrounding conditions by using a Web browser.

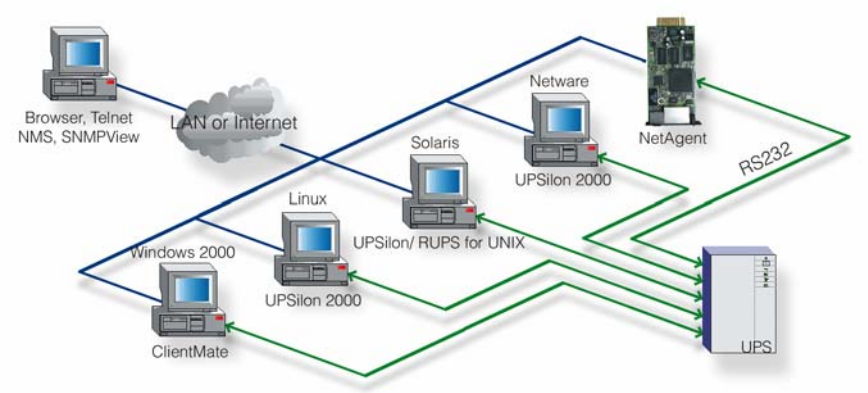


Fig.1 NetAgent connection Software

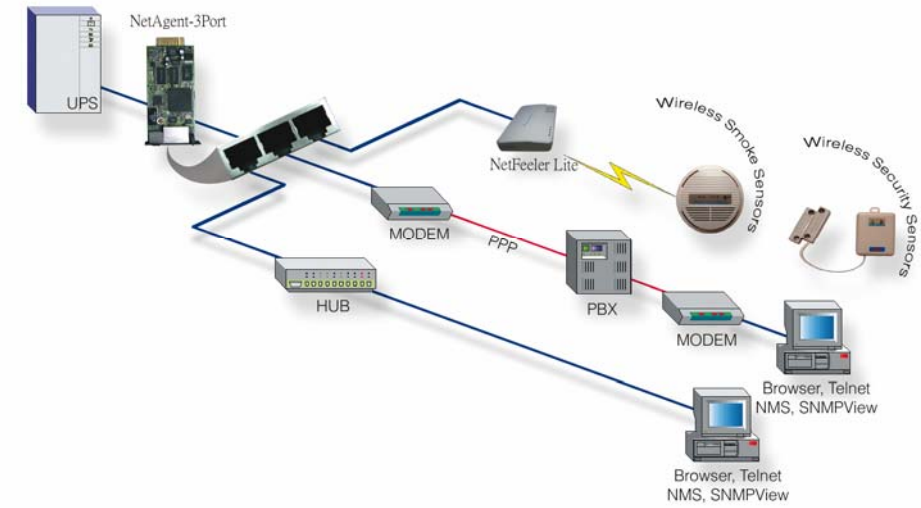


Fig.2 3 Port NetAgent II Diagram

Section3. NetAgent Models

3.1 NetAgent Models

NetAgent II Model				
P/N	Package Contents	Internal/External	1/3 Ports	1/3 phases
CK504 CP504	1. 1Port Internal card 2. NetAgent Utility CD 3. User Manual	Internal	1 Port	1 phase
BK505 BP505	1. 3 Port External Agent 2. NetAgent Utility CD 3. User Manual 4.M2501 Cable (for Contact Closure UPS) 5.M2502 or M2505 Cable. (for RS232 UPS) 6. M2506 Cable (for Modem) 7. 9V DC adapter	External	3 Ports	1/3 phases
BK506 BP505	1. 3 Port Internal card 2. NetAgent Utility CD 3. User Manual 3. M2506 Cable (for Modem)	Internal		

NetAgent Mini Model				
P/N	Package Contents	Internal/External	1/3 Ports	1/3 phases
DK520 DP520	1. Internal NetAgent Mini 2. NetAgent Utility CD 3. User Manual	Internal	1 Port	1/3 phases
DK522 DP522	1. Enternal NetAgent Mini 2. NetAgent Utility CD 3. User Manual 4. 5.3V DC adapter	External		
DK532 DP532	1.Enternal NetAgent Mini with LCD Display 2. NetAgent Utility CD 3. User Manual 4. 5.3V DC adapter	External		

Fig.3 NetAgent Models

3.2 Pictures of NetAgent

NetAgent II(BK,CK Series)		
CK504		
CP504		
BK506 BP506		
BK505 BP505		

NetAgent Mini (DK,DP Series)		
DK520, DP520	DK522, DP522	DK532, DP532

Fig.4 Pictures of NetAgent

3.3 NetAgent Package Contents

Netagent has three models: “Internal/External”; “1 phase/3 phase”; and “1 port/3 port”. The different model has different equipment items.

❶ NetAgent Utility CD, including:

- ♦ Netility:Configure NetAgent UPS IP address, update firmware
- ♦ ClientMate:Windows, Linux, FreeBSD shutdown utility.
- ♦ SNMPView:Windows platform multiple NetAgent UPS management software.
- ♦ UPS MIB:MIB file for the Network Management System
- ♦ Time Server:Time adjustment utility
- ♦ And NetAgent installation/users manual

❷ M2501 Cable:For external NetAgent II connection to contact closure UPS

❸ M2502 (or M2505) Cable:For external NetAgent II connection to RS-232 UPS.

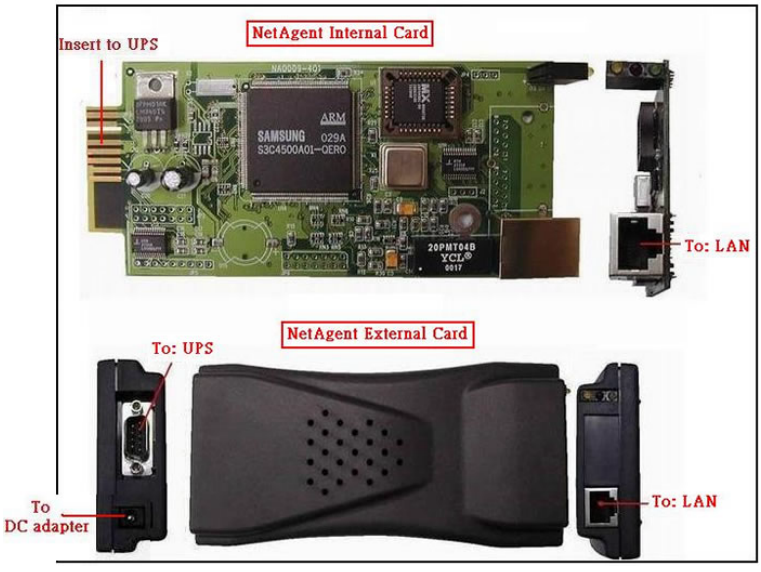
❹ M2506 Cable:For connection 3Port NetAgent and Modem.

❺ 9V DC Adapter:For External NetAgent II

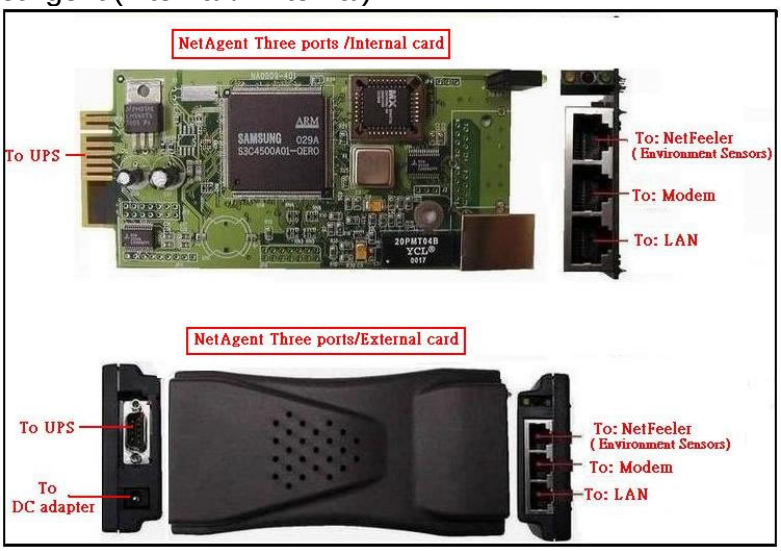
❻ 5.3V DC Adapter:For External NetAgent Mini

3.4 NetAgent II Out looking

♦ 1 Port NetAgent (Internal / External):



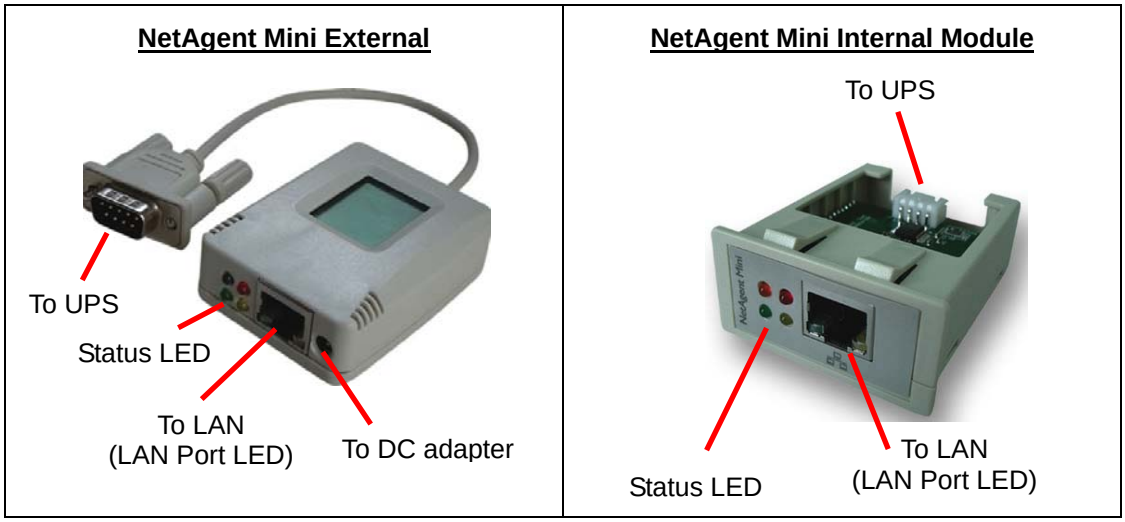
♦ 3 Ports NetAgent (Internal / External) :



LED Table			
Yellow	**Red**	**Green**	**Status**
Solid Off	Solid Off	Solid ON	Power ON
Flashing	Solid ON	Solid ON	System initial
Solid ON	Solid Off	Solid ON	Normal operation
Solid ON	Flashing	Solid ON	No connection to UPS
Flashing	Flashing	Solid ON	Writing data to flash memory
Green light : Power state Red light : Connection state with UPS			

Fig.5 NetAgent II Out looking

3.5 NetAgent Mini Out looking



Light signal application of NetAgent Mini - Status LED		
Light color	**Signal definition**	**Condition description**
Green	Power state	On: Normal power
Red	Connection state with UPS	Flash: no connection with UPS
Orange	Correspondence state	Light flashes when Netagent transmits command to UPS

Light signal application of NetAgent Mini - LAN Port LED	
Light color	**Condition description**
Green	On: Internet correspond speed is 100M Flash: Data transmmiting
Yellow	On: Internet correspond speed is 10M Flash: Data transmmiting

Fig.6 NetAgent Mini Out looking

Chapter 2. NetAgent UPS Installation

Before using the NetAgent, the proper hardware and software configuration is necessary. Hardware installation is to connect the NetAgent and UPS and network. Software configuration includes the IP address.Firmware upgrade. Or using the Browser or Telnet for configuration.

You could also install the shutdown utility – ClientMate to protect your Windows operating system. And also could use the UPS management software – SNMPView, to control and management multiple UPS on the network.

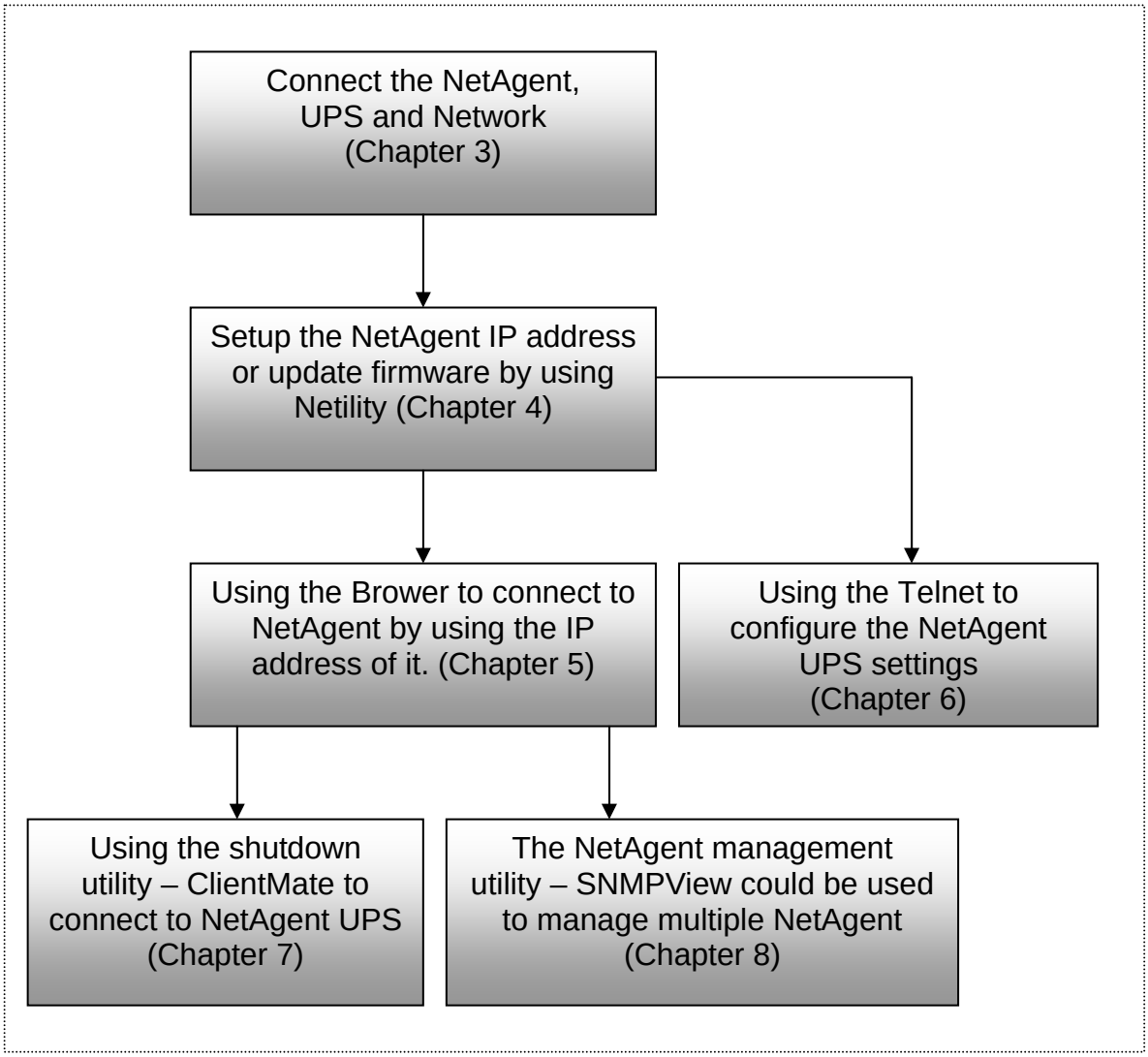

Connect the NetAgent, UPS and Network (Chapter 3)
Setup the NetAgent IP address or update firmware by using Netility (Chapter 4)
Using the Brower to connect to NetAgent by using the IP address of it. (Chapter 5)
Using the Telnet to configure the NetAgent UPS settings (Chapter 6)
Using the shutdown utility – ClientMate to connect to NetAgent UPS (Chapter 7)
The NetAgent management utility – SNMPView could be used to manage multiple NetAgent (Chapter 8)

Fig.7 NetAgent UPS installation flowchart

Chapter 3. NetAgent, UPS and Network Connection

NetAgent II and NetAgent Mini provides External and Internal model for different UPS interface requirement. Please reference the following description for detailed information of UPS and network connection.

Section1. Install the NetAgent II with UPS and Network

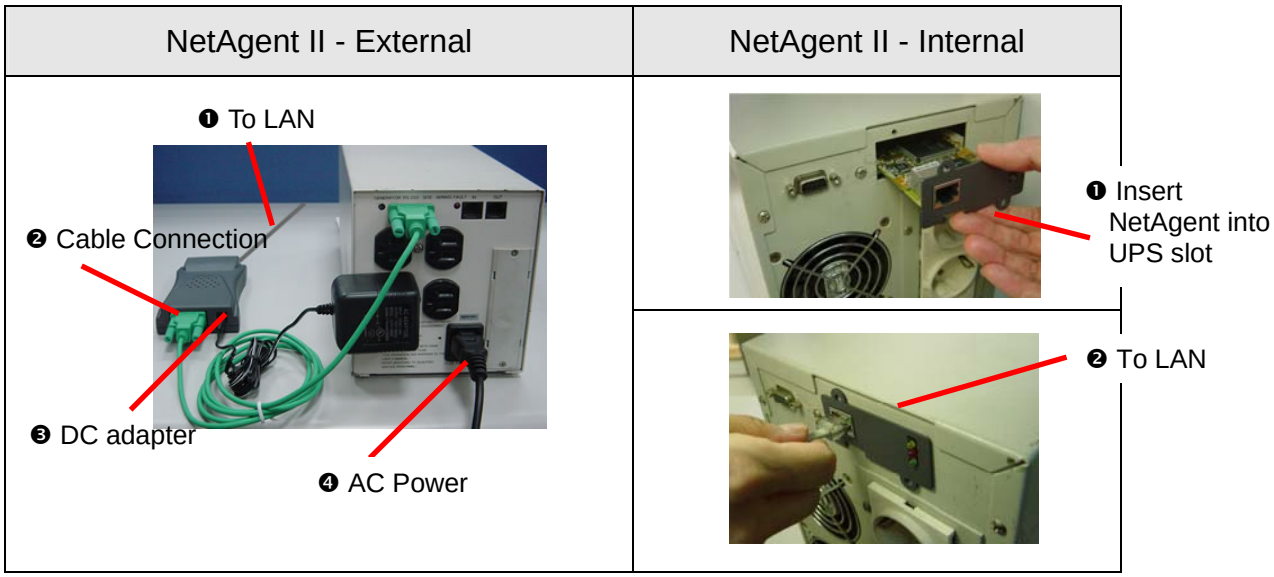


Fig.8 NetAgent II Installation

1.1 For External NetAgent II

❶ Connect the NetAgent II Adapter to LAN, using the appropriate UTP port.

❷ Connect the specified serial cable (M2501/M2502/M2505) from NetAgent II Adapter to the serial port of UPS.

❸ Plug supplied AC adapter to the wall socket, the other side connection with NetAgent Adapter.

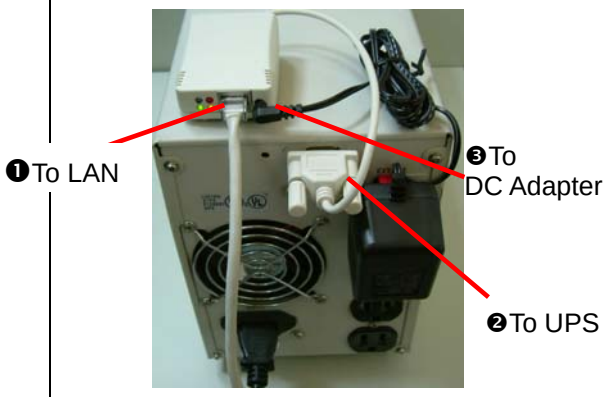
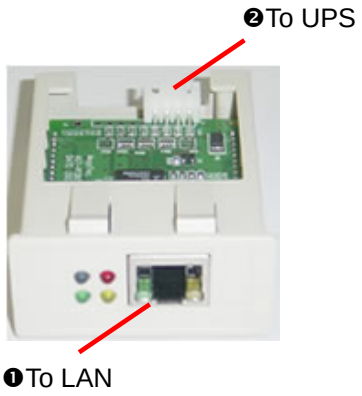
❹ UPS with AC

1.2 For Internal NetAgent II

❶ Insert the Net Agent Card into the slot of UPS.

❷ Connect the Net Agent Card to LAN, using the appropriate UTP port.

Section2. Install the NetAgent Mini with UPS and Network

NetAgent Mini - External	NetAgent Mini -Internal
	

2.1 For External NetAgent Mini

❶ Connect the NetAgent Mini to LAN, using the UTP port.

❷ Connect the cable from NetAgent Mini to the serial port of UPS.

❸ Plug the DC adapter to UPS outlet, the DC plug connected with NetAgent Mini.

2.2 For Internal NetAgent Mini

❶ Please make sure the connector direction of the cable is correct before connecting to the NetAgent.

❷ Connect the NetAgent module to LAN, using the UTP port.

Warning: Please make sure the input Voltage and Frequency of the DC power adapter (NetAgent II – DC 9V / NetAgent Mini – DC 6V or 5.3V) is correct before plug the power into!

Chapter 4. Using Netility Setup IP.Update Firmware

Section1. Install Netility

❶ Insert NetAgent Utility CD to the CD-ROM driver and execute Netility.exe.

❷ After complete installation, there will be a 'Netility' group in Windows 'Start' → 'Program Group'.

Fig.9 Netility Group

❸Click "Netility" could initiate the Netility and enter the mail window for configuration.

Section2. Using Netility

The main window of Netility is here below,left table is to show you all of NetAgent be searched in LAN; right side is function selection menu.

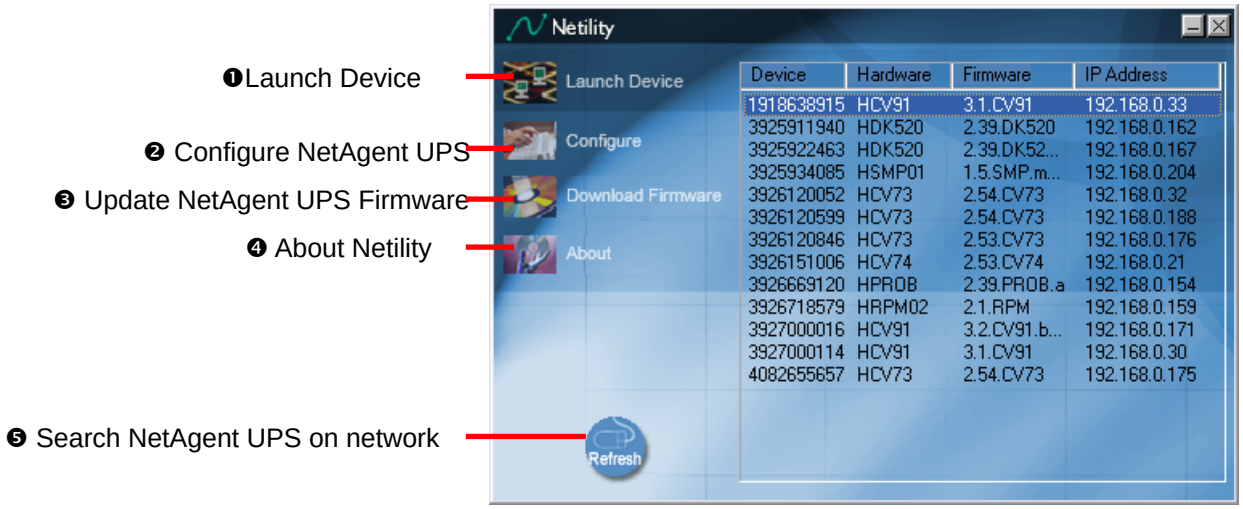


Fig.10 Netility Main Window

❶ Launch Device

Click Launch Device or double click the NetAgent listed in the table to launch it.

Enter the Account (Login Name) and Password (Login Password) set earlier to login. If you did not configure one, then just click Apply to login.

❷ Configure

Choose the Netagent UPS from the right of the screen, then click “Configure”, would shows the following setting page.

IP Address:Set IP address for Netagent UPS

When use at the first time, please set IP address; subnet mask; and gateway. After setting, enter IP address from Telnet or Browser to connect to Netagent’s website.

When using DHCP or BOOTTP to set up IP address, IP address, Subnet Mask and Gateway would receive directly by the system.

Fig.11 Netility : Set IP address for NetAgent UPS

Advanced:Advanced Netagent UPS Setting

In order to ensure the secure management of UPS, Netility provides two protecting function:

Netility Password

After password setting here, there is no way to give any command to Netagent by Netility software without user’s password. **(NB. If lose this password, Netagent UPS will never be able to complete any upgrade process.)**

Management Protocol

Netagent UPS provides HTTP(WEB) and Telnet to reference any related parameter setting for the manager. Concerning with security, the manager could build use openly or any advance port setting upon the above two methods. Followings are the description:

1. At advanced setting, two functions were set as activated by using port number 80 and 23.
2. Untick means not using the function.

3. When set to the other port value, full IP Address must be entered in order to login to the website or Telnet.

For example,

- ☞ Set 81 as HTTP port number, then http://192.168.0.177:81 must be typed at the web address to proceed to Netagent UPS's website.
- ☞ Set 24 as Telnet port number, then "192.168.0.177:24" must be typed at Telnet to proceed to the Telnet screen of NetAgent UPS.

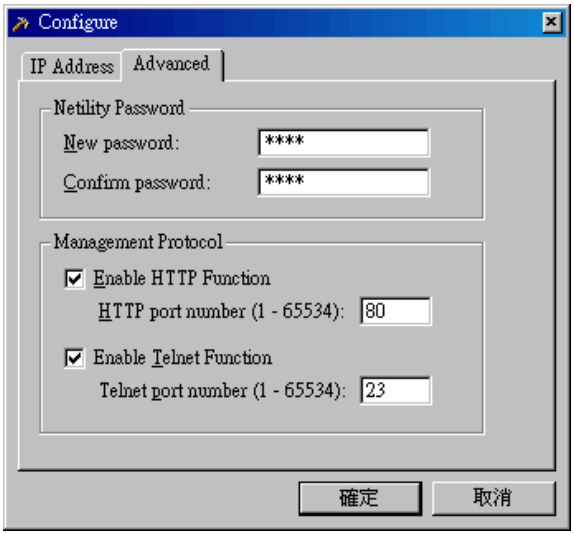


Fig.12 Netility : Advanced setting of Netagent UPS

❸ Download Firmware

NetAgent offer convenient firmware upgrade function. When you are going to upgrade firmware, click ***Download Firmware*** from NetAgent Setup menu, click "Browser" select new firmware file (*.bin) and press "Start". Thus, Net Agent's Red LED and Yellow LED flashing alternative means the firmware is upgrading. After upgrade completed, Net Agent will auto reboot. To upgrade multi NetAgent with same firmware, hold on "shift" or Ctrl" and choose the NetAgent device from Netility list.

(Please connect to the **http://www.megatec.com.tw** for the latest firmware) If multi upgrade, select When upgrade firmware to multi NetAgent,

Note:Net Agent provided well-considerable protection function. If uploading was interrupted and raised data in incomplete, Net Agent will keep its default to avoid of complete data loss. In the case, just repeat "firmware upload" as well.

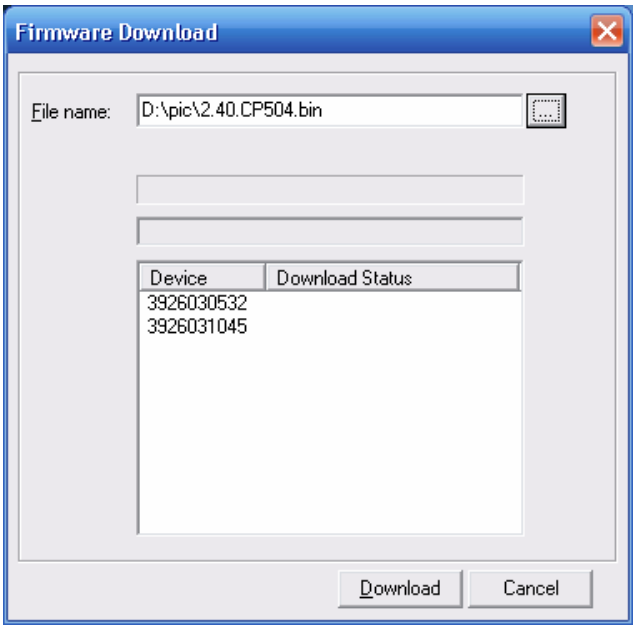


Fig.13 Netility : Update NetAgent UPS firmware

❹ About - Netility version examined

Fig.14 Netility version examined

❺ Refresh - Search Lan's Netagent UPS manually

Netility would search Netagent UPS from Lan automatically, or the user could search manually by click on "Search Netagent".

Fig.15 Netility:Netagent UPS search manually

Chapter 5. UPS Web management by NetAgent

Section1. Introduction

After finishing NetAgent installation, including hardware installation and IP setting, you are now able to go to NetAgent web site to monitor and control UPS by inputting NetAgent IP address in Browser.

❶ Starting the Web Brower (Netscape or Internet Explore

❷ Enter the NetAgent IP Address (Which is setting on Netility, e.g. 211.21.67.51).

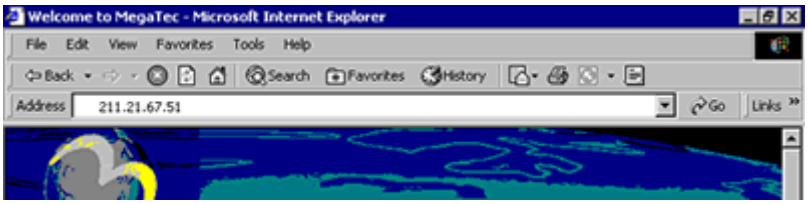

Welcome to MegaTec - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History
Address 211.21.67.51
Go Links

Fig.16 Input NetAgent UPS IP address

❸ On the first screen, enter the current password. If no password has been set, just press [ENTER].

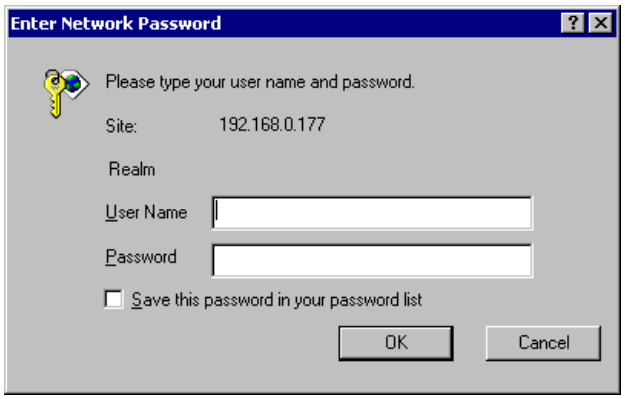


Fig.17 NetAgent UPS Login dialog

Section2. NetAgent UPS Web Interface

Enter NetAgent UPS Web page,there are 4 main function items in the first Web page:

2.1 Information

2.2 Configuration

2.3 Log Information

2.4 Help

Enter the main function item, the sub-menu items will be shown on the left side of the page. **When using this NetAgent for the first time, please enter the [Config] menu item to set all the configuration items. Then the UPS status could be correctly revealed by other pages.**

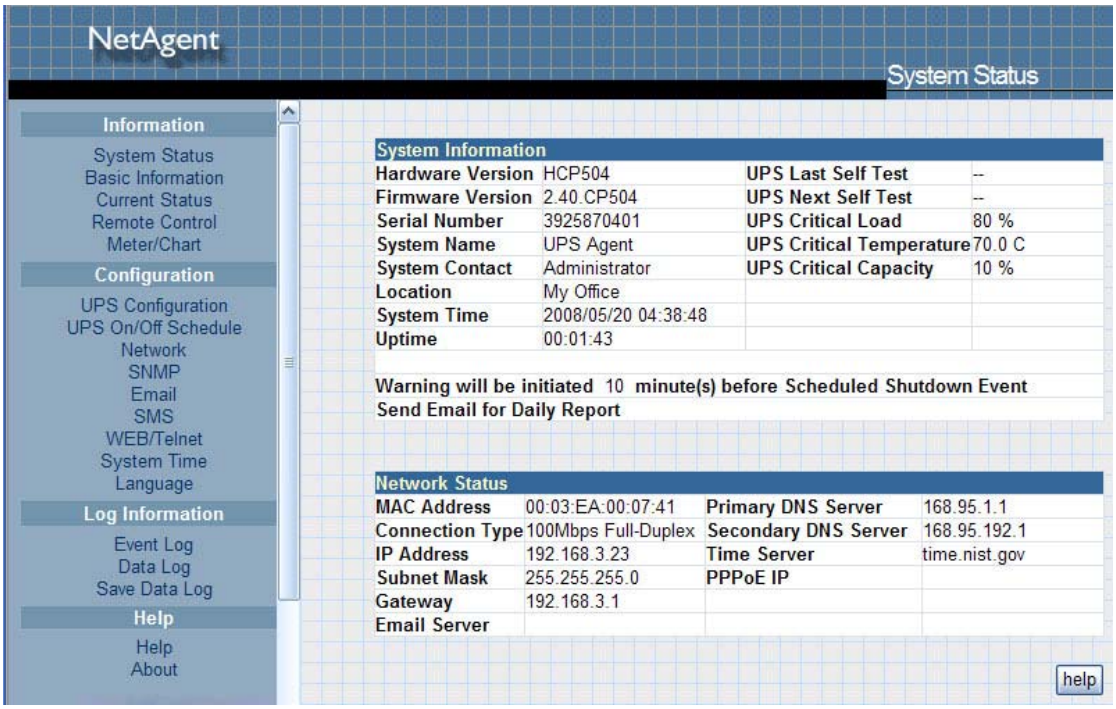


Fig.18 NetAgent UPS - single port

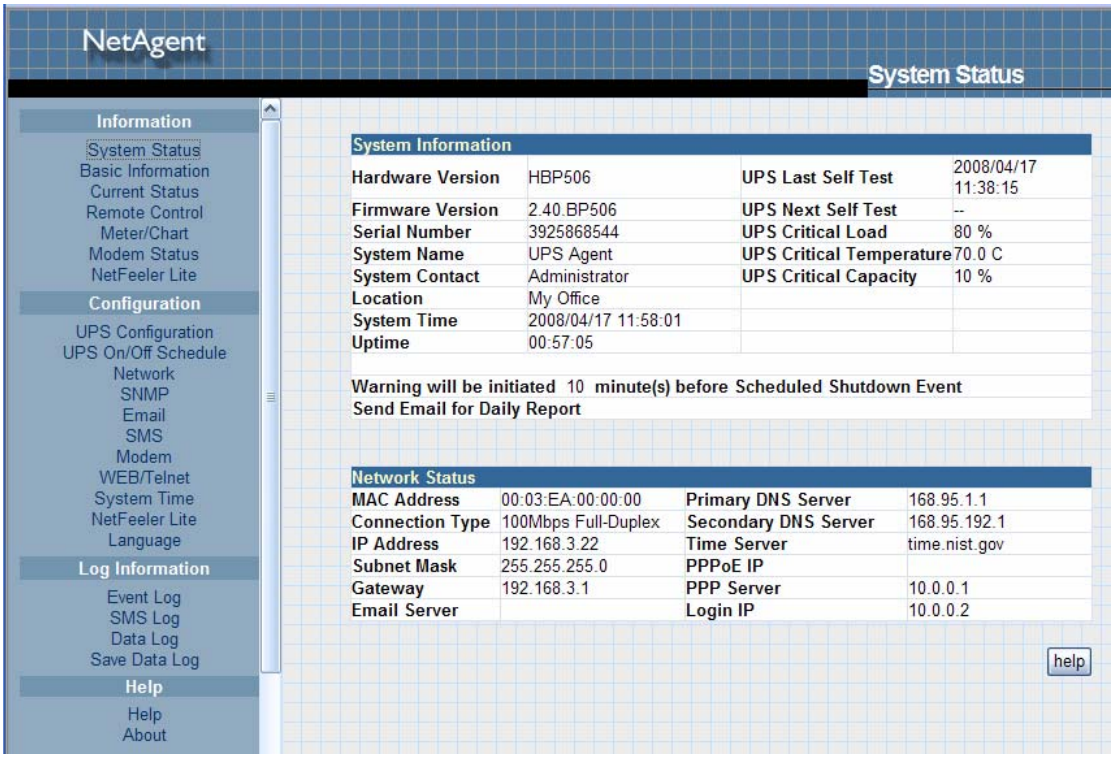


Fig.19 NetAgent UPS - 3 ports

2.1 Information

Sub-Menu :

2.1.1 System Status
2.1.2 Basic Information
2.1.3 Current Status
2.1.4 Remote Control
2.1.5 Meter/Chart
2.1.6 Modem Status
2.1.7 Environment Sensors-NetFeeler Lite

Note: The options available on this menu depend on the UPS mode. (e.g. For the Basic UPS, the “Current Status” , “Meter” , “NetFeeler Lite” will not available.)

2.1.1 System Status

This page is to show NetAgent system information and Network settings. Values shown here are either provided by NetAgent itself or they are user settings from the Configuration pages.

System Information

This section is to show NetAgent system information. Values in Hardware Version/Firmware Version/Serial Number/System Time, are provided by NetAgent itself. Other values are user settings from the Configuration pages.

Network Status

This section is to show NetAgent Network settings. The MAC address is provided by NetAgent. All other values in this section are user settings from the Configuration pages.

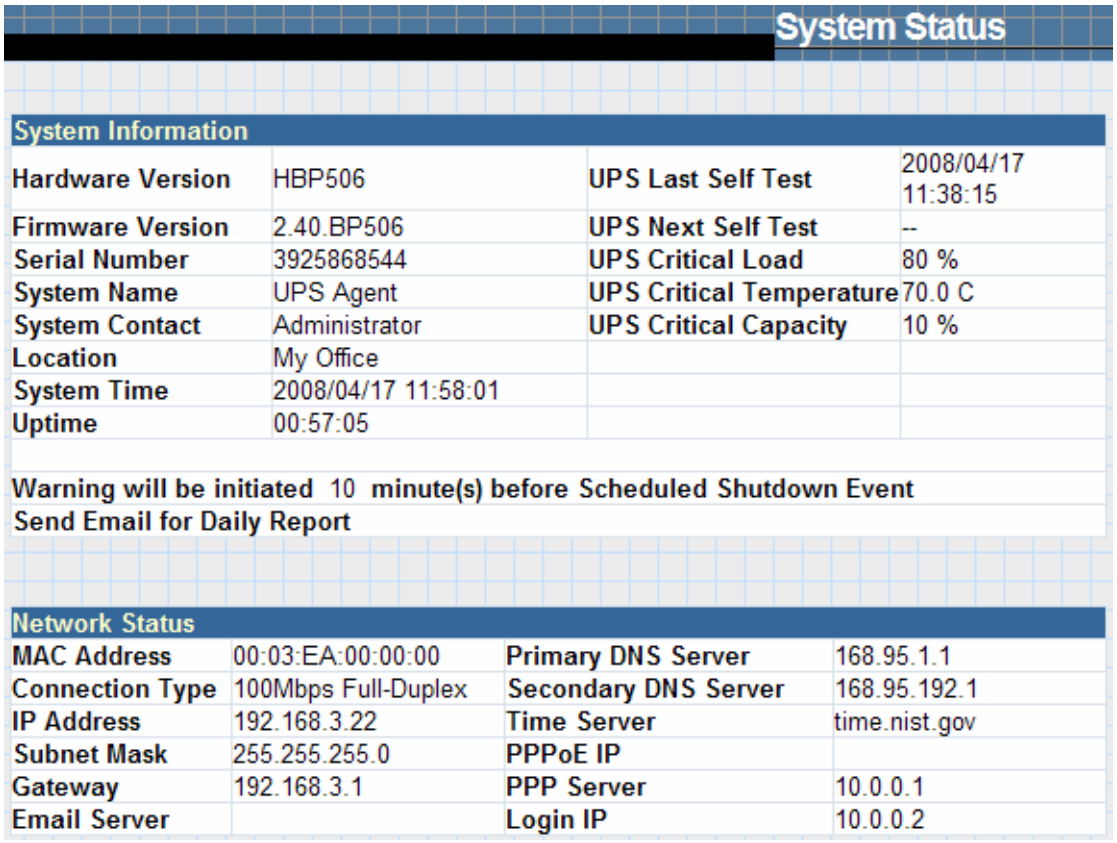


Fig.20 System Status

2.1.2 Basic Information

This page is to show UPS basic information. Values here are either provided by the UPS or they are user settings from the Configuration pages.

UPS Information

Information about UPS Manufacturer/UPS Firmware Version/UPS Model are provided by the UPS.

Battery Information

Values here are user settings from the Configuration pages.

Rating Information

Values here are provided by the UPS.

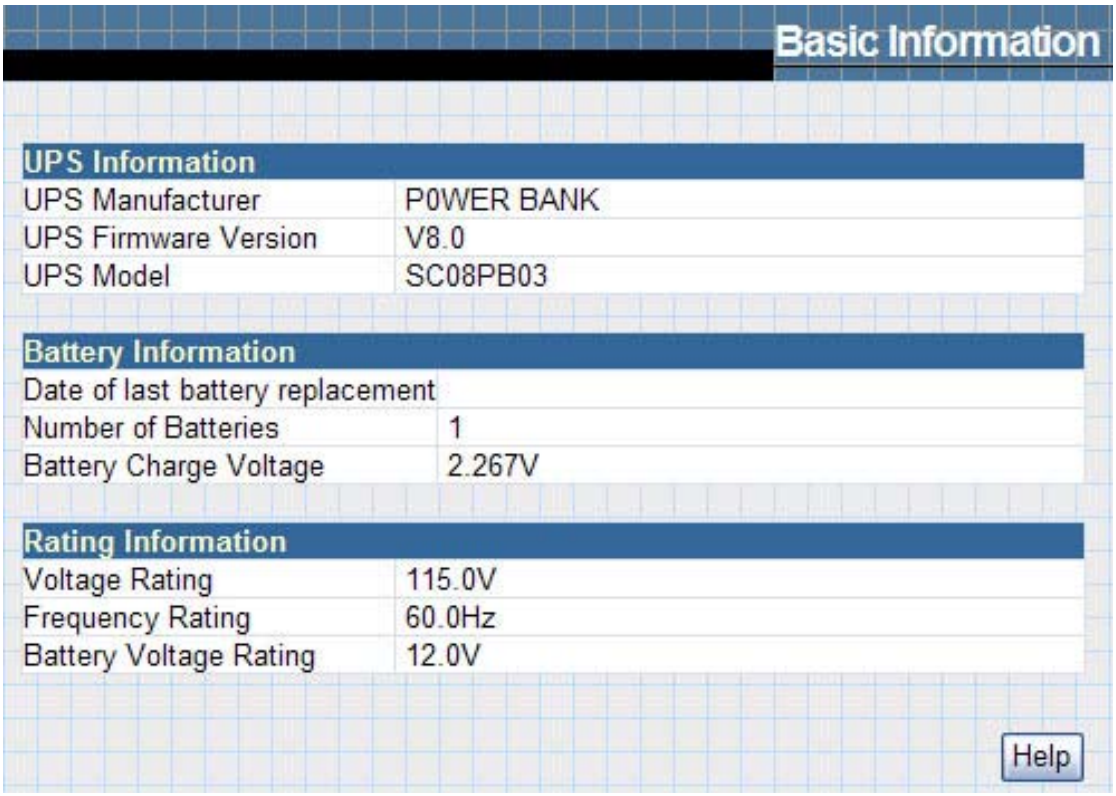


Fig.21 Basic Information

2.1.3 Current Status

This page is to show the UPS current status. Users can choose an interval from the drop-down box to refresh the status readings.

UPS Status

This section is to show the UPS power status. The abnormal status will be displayed in red when there is a power event.

Input Status

This section is to show the UPS input status, including AC Status/Input Voltage/Input Frequency. Values here will be shown in red when an abnormal status condition occurs.

Output Status

This section is to show the UPS output status, including Output Voltage/Output Status/UPS Loading. Values here will be shown in red when an abnormal status condition occurs.

Battery Status

This section is to show the UPS Battery Status, including Temperature/Battery Status/Battery Capacity/Battery Voltage/Time on Battery. Values here will be shown in red when an abnormal status condition occurs.

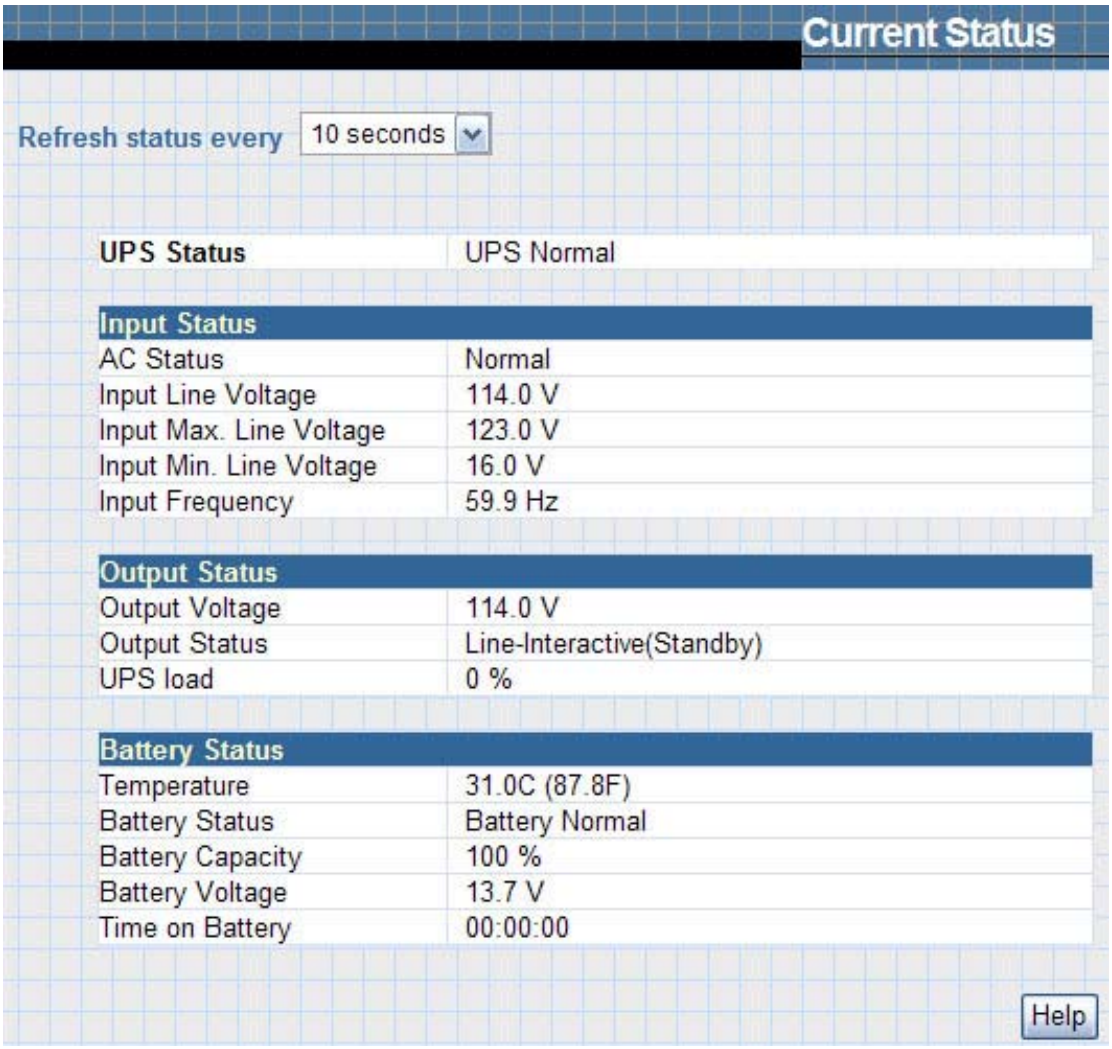


Fig.22 Current Status

2.1.4 Remote Control

This page is to provide remote UPS test functions. Choose the test item, then click on 'Apply' to execute it. (Please refer to the UPS manual for individual UPS Test functions.)

If you are using a Contact Closure UPS, you will only be able to use the function ' Turn off UPS when AC Failed'.

Cancel Test
This function is to abort a test when it is executing.

Turn off UPS when AC failed/Reboot UPS
Selecting ' Turn off UPS when AC failed' will turn off the UPS. You can reboot the UPS by selecting ' Reboot UPS'.

Put UPS in Sleep mode for __ minutes/Wake up UPS
When the UPS is put into Sleep mode, it will not provide power. The UPS will provide power again after Sleep mode time is complete.

Reboot UPS
When execute such command, UPS load would start over.

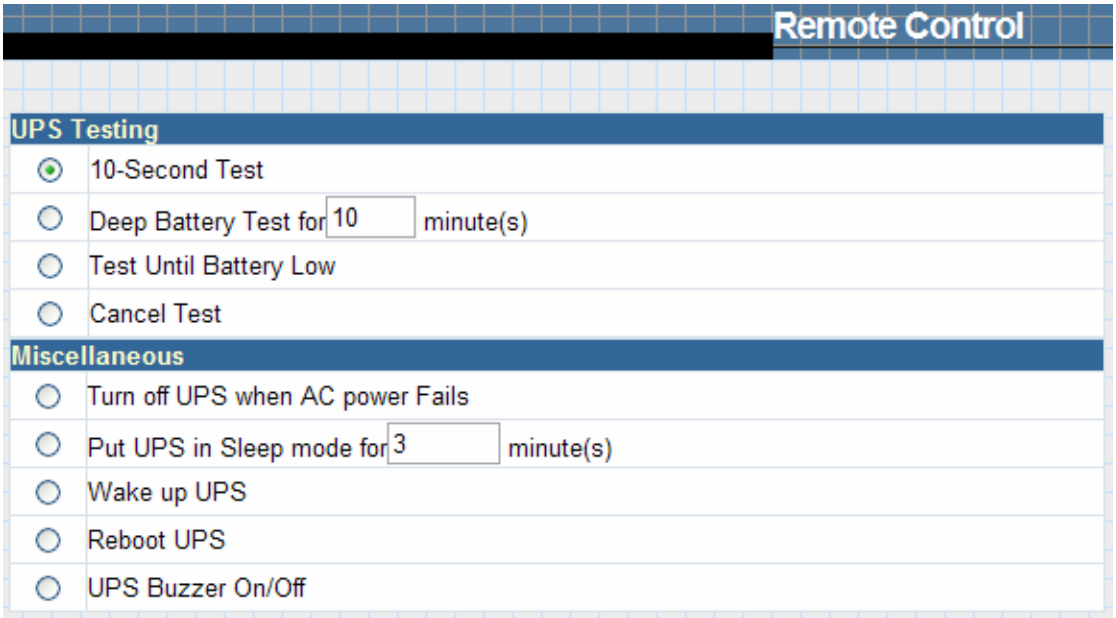


Fig.23 Remote Control

2.1.5 Meter/Chart

This page displays temperature, capacity, load, voltage..etc of the UPS by appearing with meters diagrams.

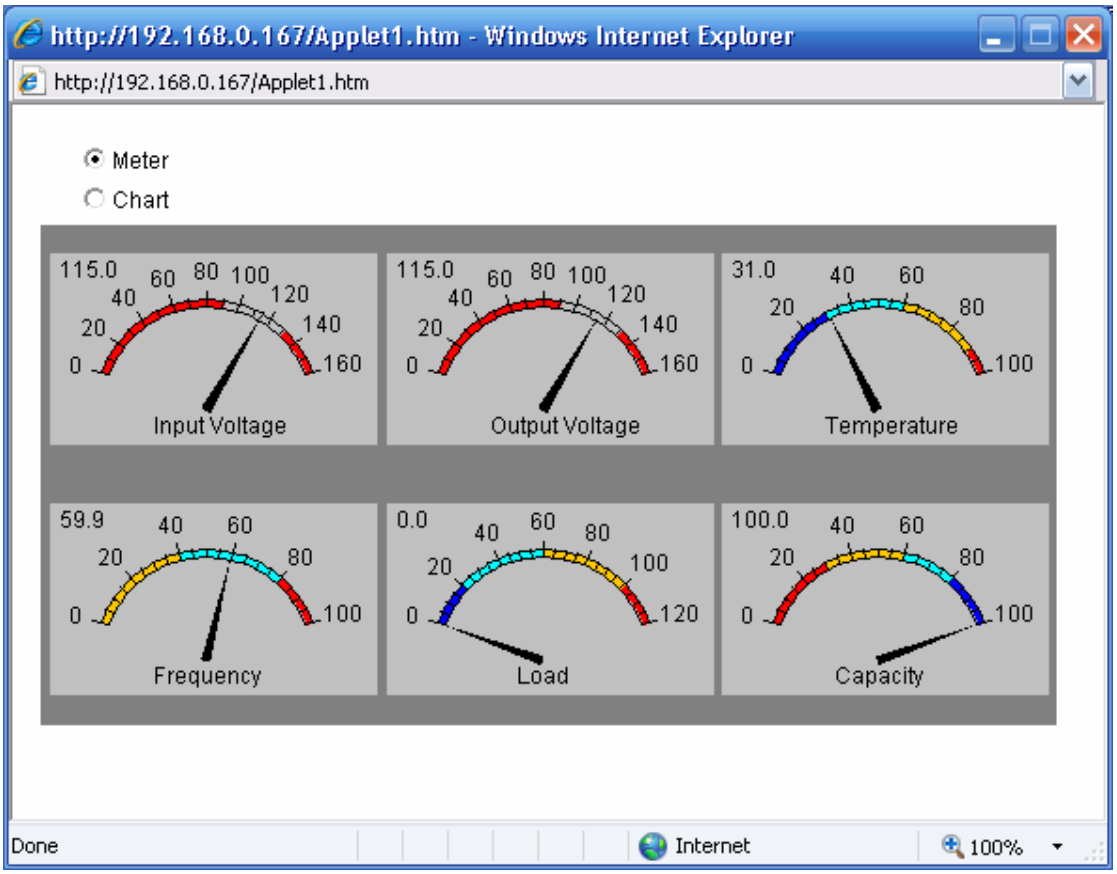


Fig.24 Meter/Chart

2.1.6 Modem Status (For 3 Ports NetAgent II only)

This page displays Modem's status and information. when 3 ports NetAgent II connects with modem.

Modem Information

This section displays the modem information.

GSM Modem Operating Status

This section displays the operating status between NetAgent and Modem.

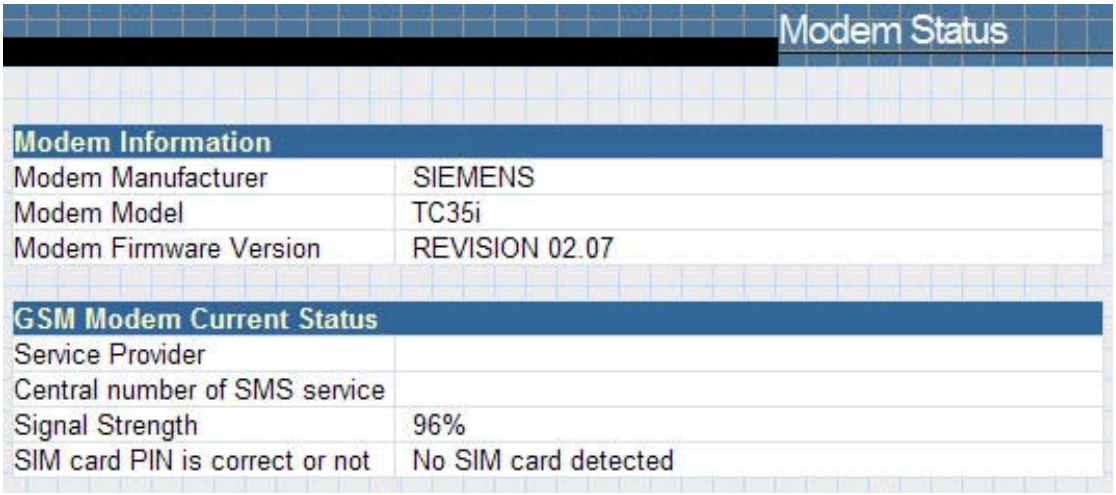


Fig.25 Modem Status

2.1.7 Environment Sensors-NetFeeler Lite

A NetAgent with three ports can be connected to a NetFeeler Lite to detect the environment status. NetFeeler Lite can detect Temperature , Humidity and water(Water). It can receive signals from wireless smoke sensors, gas sensors and security sensors to detect further environmental conditions.

This page is to show details of the environment detected by NetFeeler Lite. Users can choose an interval from the drop-down box to refresh the status. All settings can be set in the Configuration/NetFeeler Lite page. The status will be displayed in red when NetFeeler Lite detects an abnormal status condition. In addition, NetFeeler Lite will also set off an alarm for notification.

NetFeeler Lite Status

Environmental Temperature
This section is to show current temperature which is detected by NetFeeler Lite.

Environment Humidity
This section is to show current humidity which is detected by NetFeeler Lite.(shown as%)

Water Status
This section is to show water presence (ie. flood)which is detected by NetFeeler Lite.

Gas Status
This section is to show gas presence which detected by gas sensor. When leakage of gas detected, sensor would beep and stops only when gas vanish.

Smoke Status
This section is to show smoke presence (ie. fire) which is detected by smoke sensors.

Security Status (Security1 ~ Security7)
This section is to show open/close status for doors and windows. NetFeeler Lite can monitor up to 7 Security Sensors.

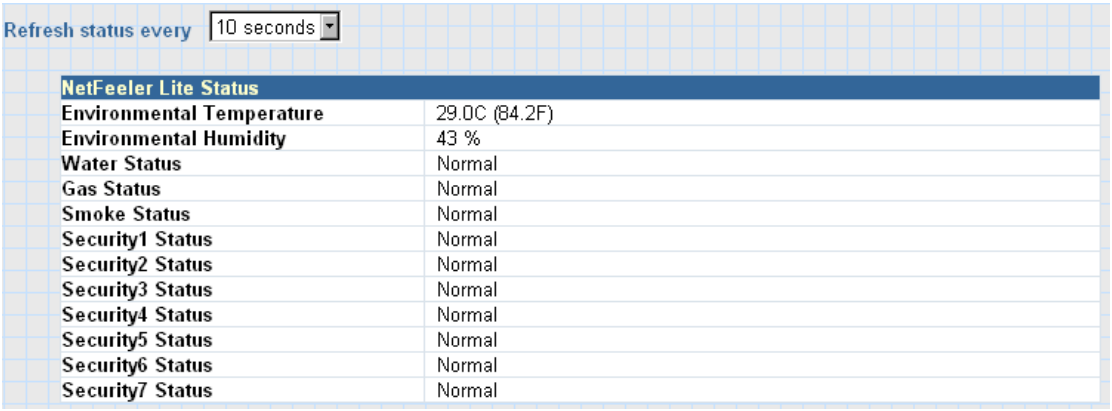


Fig.26 Environment Sensors - NetFeeler Lite

2.2 Configuration

Sub-Menu :

- **2.2.1 UPS Configuration**
- **2.2.2 UPS On/Off Schedule**
- **2.2.3 Network**
- **2.2.4 SNMP**
- **2.2.5 Email**
- **2.2.6 SMS**
- **2.2.7 Modem**
- **2.2.8 WEB/Telnet**
- **2.2.9 System Time**
- **2.2.10 NetFeeler Lite**
- **2.2.11 Language**

Please set each parameter correctly, so that Netagent would operates properly.

> Note: This page's selection would differ according to the differnent interface of the UPS.

2.2.1 UPS Configuration

This page is to set the UPS configuration. Any wrong settings will cause incorrect display values or disconnection between the UPS and NetAgent.

UPS Properties

UPS Communication Type
This section is to set up the communication interface of the UPS. (eg. Contact Closure/RS232/3 phase etc.) Please refer to the UPS manual to set the correct communication type. Any wrong settings will cause disconnection between the UPS and NetAgent.

Number of Batteries, Battery Full Charge Voltage (V), Battery Exhausted Charge Voltage (V)
Please refer to the UPS manual to set the value.

Date of last battery replacement (yyyy/mm/dd)
This section is to record the date when the UPS battery was last replaced.

UPS Recorded

UPS Data Log
This section is to set how often the UPS data should be logged.

Test UPS

Test UPS for every
This section is to schedule the UPS to test once a week or once every two weeks or not to test

Test UPS on Weekday
This section is to set the UPS to test on a particular day of a week.

Length of UPS Testing (hh:mm)
This section is to set the UPS to test at a certain time on the test day.

Warning Threshold Value

Time out of after lost of connection
This section is to set a period of time after which NetAgent will send a disconnection warning message. This warning message will be sent after NetAgent has lost contact with the UPS for the time specified.

Critical Loading (%)
This section is to set the UPS critical loading. (shown as %) NetAgent will send a warning message when the UPS is overloaded.

Critical Temperature (C)
This section is to set the UPS critical internal temperature. NetAgent will send warning messages when the UPS overheats.

Critical Capacity (%)
This section is to set the UPS critical battery capacity (shown as %)NetAgent will send warning messages when UPS low battery occurs.

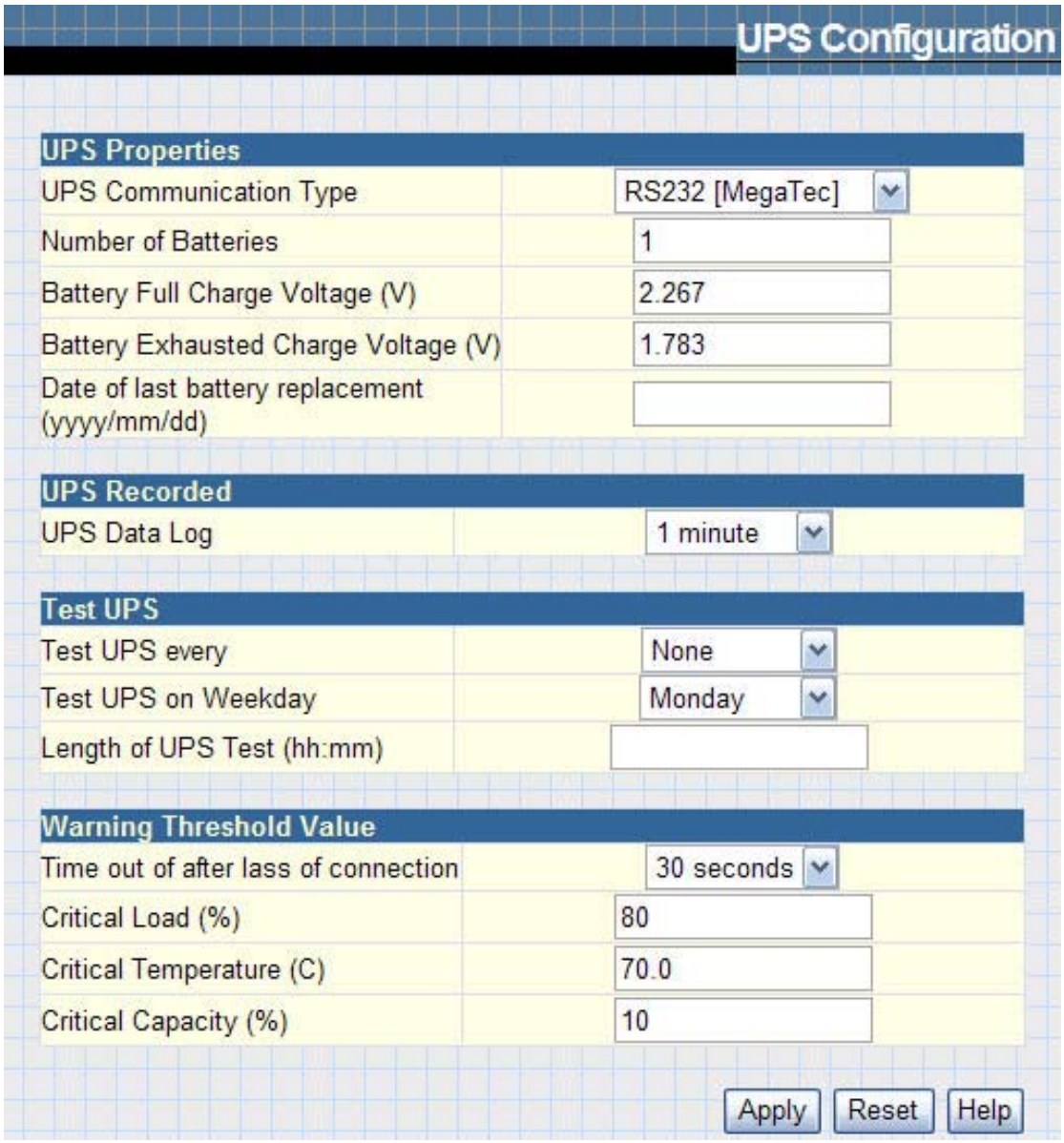


Fig.27 UPS Configuration

2.2.2 UPS On/Off Schedule

This page is to schedule On/Off time for the UPS and wake on lan.

Weekly Schedule

This section is to set the time to turn on/off the UPS each day in the week.

Date Schedule

This section is to set the time to turn on/off the UPS on particular days. (Eg, holidays.) The settings here override the settings in **Weekly Schedule**.

Warning will be initiated before Schedule shutdown event

NetAgent will send a warning message before a scheduled shutdown. This section sets the delay time period after the message is sent and before the scheduled shutdown is started.

Wake On LAN

This section is to wake the PC within the network. (Make sure the PC has such function supported and configure as “Enabled” under BIOS.) Enter the IP address of that PC and system would search its IP accordingly.

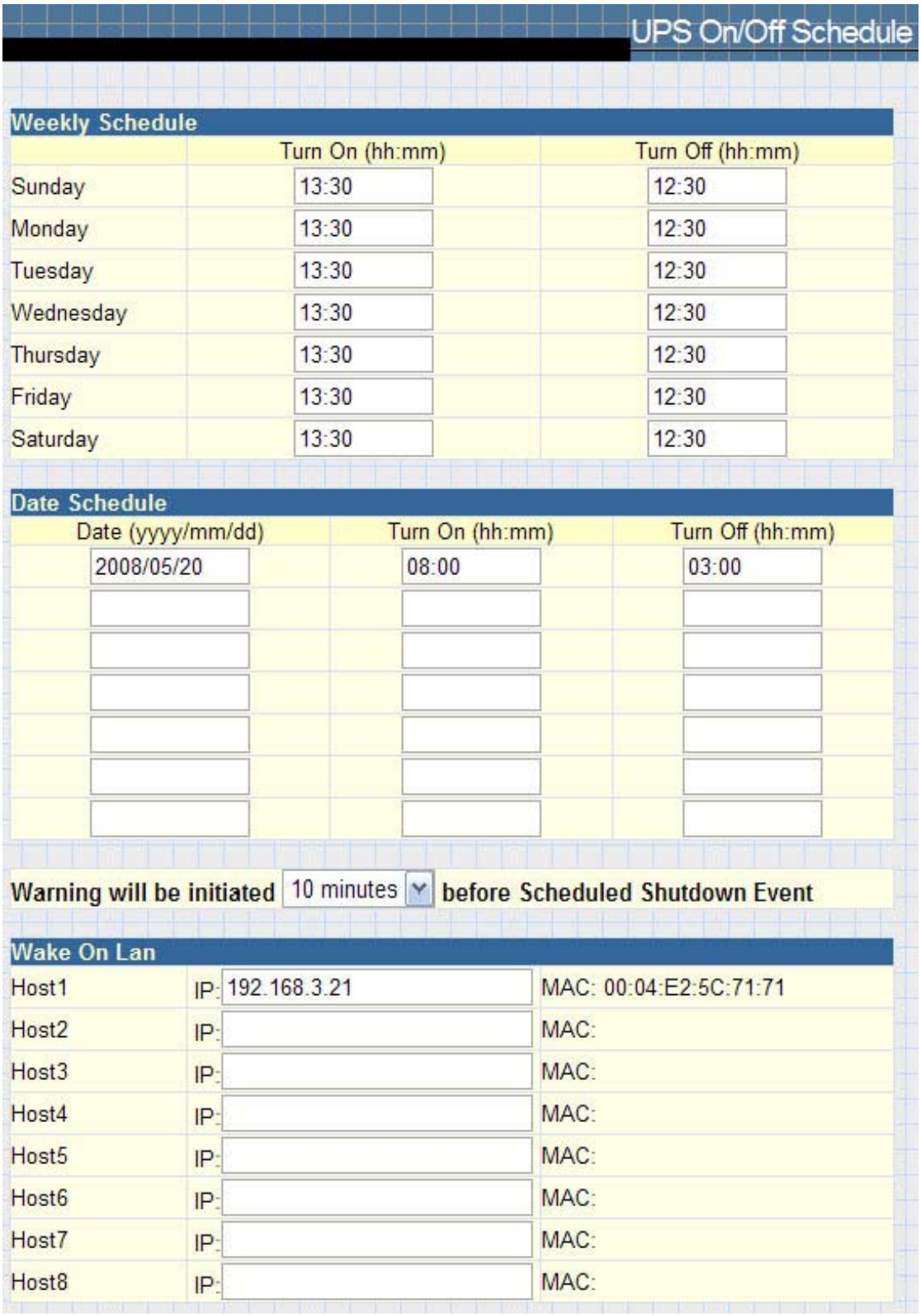


Fig.28 UPS On/Off Schedule

2.2.3 Network

This page is to set NetAgent Network settings.

IP Address

IP Address
This section is to set NetAgent IP address.

Subnet Mask
This section is to set NetAgent Subnet Mask.

Gateway
This section is to set NetAgent Gateway.

Obtain an IP address
This section is to choose to set NetAgent IP address manually or via DHCP.

The above 4 sections can be set in Netility as well. NetAgent will reboot after any of the above are changed.

DNS Server IP

Primary DNS Server IP
This section is to set NetAgent primary DNS Server IP address.

Secondary DNS Server IP
This section is to set NetAgent secondary DNS Server IP address. NetAgent will use the secondary DNS Server IP address when the Primary DNS Server IP address is not working.

Ethernet

Connection Type
This section is to set communication speed between NetAgent and Network.

NetAgent will reboot after Connection Type is changed.

Stop UPS communication when Ethernet disconnected
This section is to set if stop UPS communication when NetAgent disconnects with Ethernet

Dynamic DNS

This is a free service that allows the user to alias a dynamic IP address to a static hostname

Sevices Provider
NetAgent can be configured to register with any of the Dynamic DNS providers.

In general, to register a Domain Name;

a. Go to the DDNS provider website listed .
b. Register a new user account and password with the DDNS provider.
c. Choose a Domain Name to point to your current Dynamic IP
d. Enter information obtained in (b) and (c) into NetAgent DDNS fields

Domain Name
This is the Domain Name you have created from the above selected DDNS provider.

Login Name
This is the Login / Account name that you have created with the selected DDNS provider.

Login Password
Enter the Password you have assigned to your DDNS Account.

Use external STUN server to get Public IP to register
Choose **Yes** to ensure that NetAgent uses the WAN / Public IP to update the selected DDNS server.

PPPoE
Use this option to allow NetAgent to connect to the Internet directly using your xDSL modem. Once set-up, NetAgent will connect directly to the Internet without going through a router. The LCD will display the current WAN / Public IP instead of the LAN IP Address.

When Connection should be made
This is to set if use PPPoE to connect with NetAgent UPS

Disabled	:	Default setting.
Connect always	:	NetAgent will automatically dial up and maintain continuous connection.

Login Name
Enter the login name assigned by your ISP.

Login Password
Enter the password assigned by your ISP.

Note：System will reboot if any configuration applies

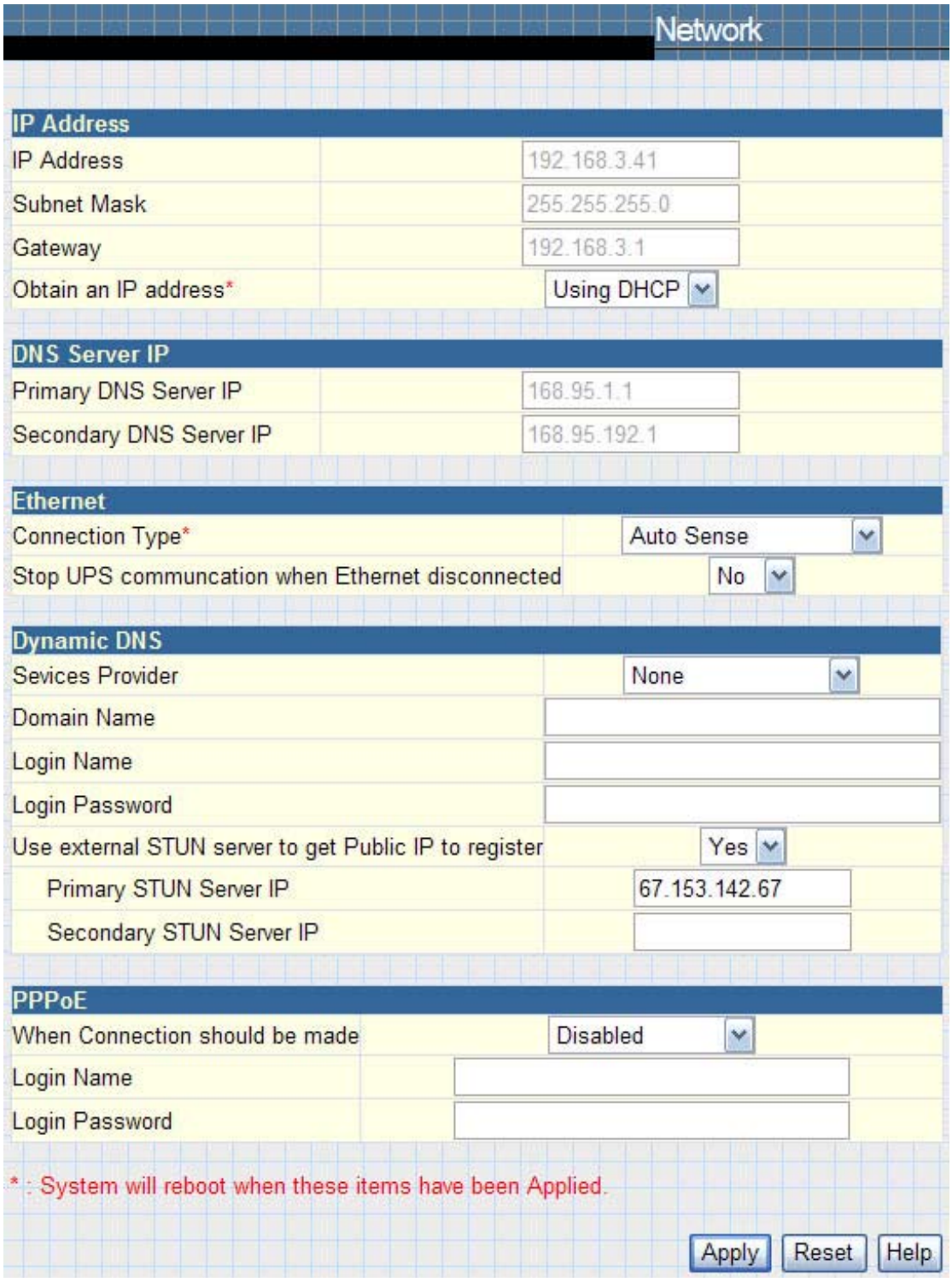


Fig.29 Network

2.2.4 SNMP

This page is to set NetAgent SNMP settings so it can be used by a NMS (Network Management System). (Eg: SNMPView, SNMPView can be found on the NetAgent Utility CD.)

MIB System

System Name
This section is to give a name to a NetAgent.

System Contact
This section is to give a name to the administrator.

System Location
This section is to set NetAgent location.

Access Control

Manager IP Address
This section is to set the IP address that the administrator can manage NetAgent from. It is valid for up to 8 IP addresses. To manage NetAgent from any IP address, enter *.*.*.* into **Manager IP address**.

Community
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS.

Permission
This section is to set authorities of administrators. Options are Read, Read/Write, and No Access.

Description
This section is for an administrator to make notes.

Trap Notification

Receiver IP Address
This section is to set receivers IP address for receiving traps sent by NetAgent. It is valid for up to 8 IP Addresses.

Community
This section is to set a Community name for NMS. The community name has to be as the same as the setting in NMS.

Severity
This section is to set Trap receiver levels. There are three levels of Trap receiver :

- Information: To receive all traps.
- Warning: To receive only “warning” and “severe” traps.
- Severe: To receive only “severe” traps.
  (Please refer to NMS manual for Trap levels.)

Accept
This section is to set to receive a trop or not.

Description
This section is for an administrator to make notes.

Event
This section is to select events for NetAgent to send traps. Clicking on Select will open a Select Events List. Event Traps may be selected from this list. Events list is below:

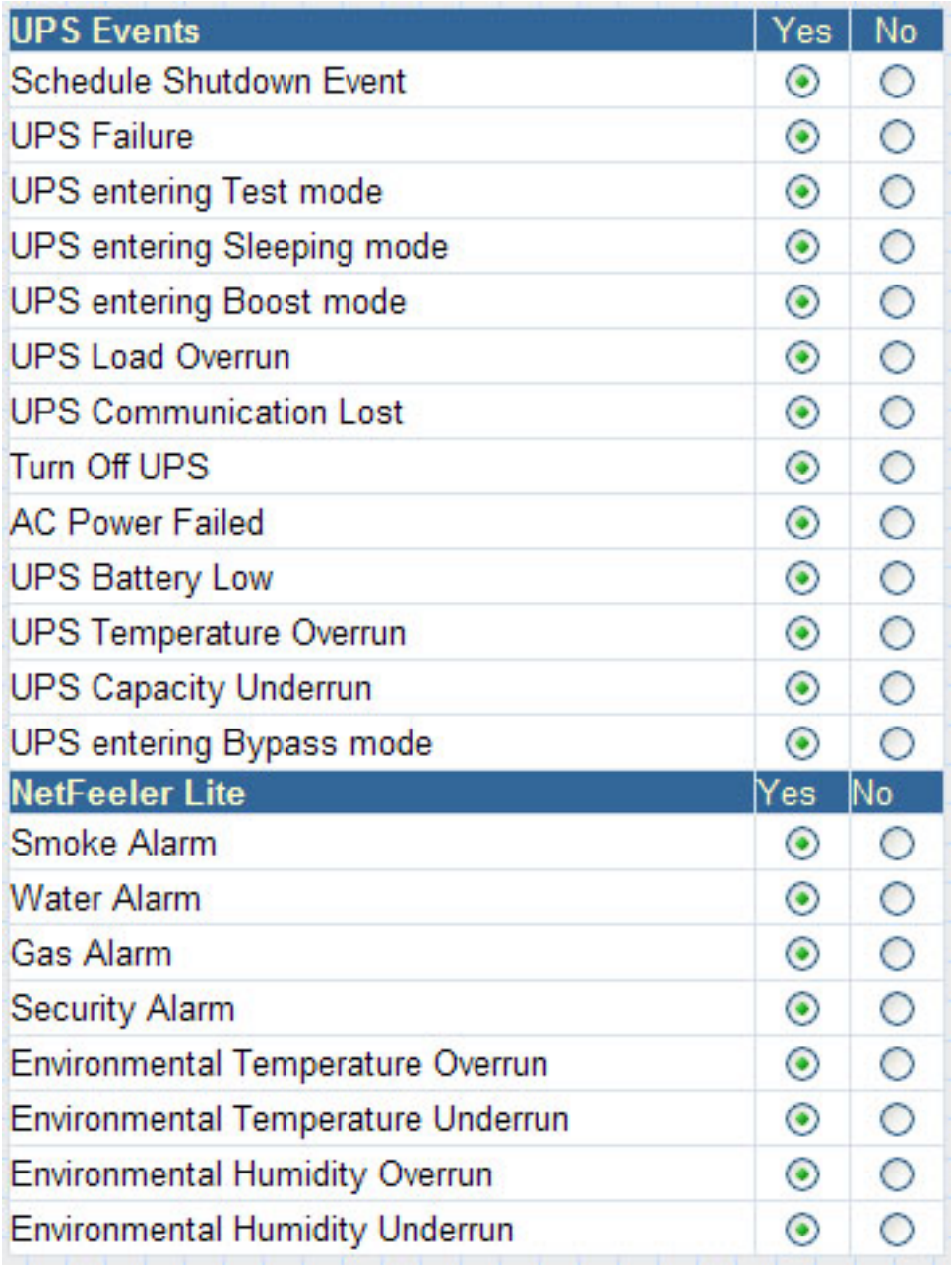


Fig.30 UPS Events

Device Connected

This section is to set the usage power and connection status of other devices which connects to the same UPS as NetAgent uses.

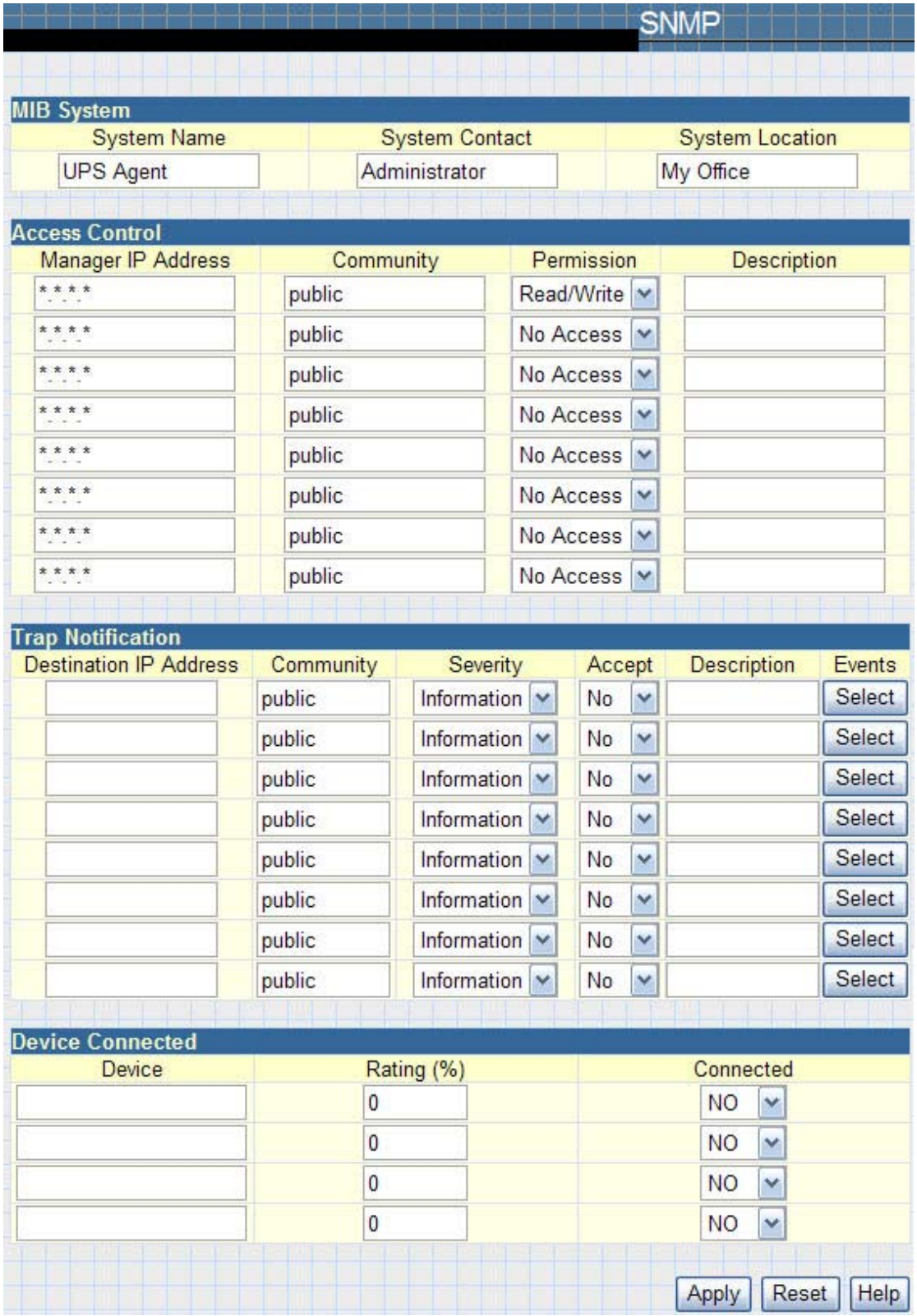


Fig.31 SNMP

2.2.5 Email

This page is to set Email details for use by NetAgent.

Email Setting

Email Server
This section is to set NetAgent Email Server .

Sender's Email Address
This section is to set NetAgent's Email address.

Email Server Requires Authentication
This section is to set whether the Email Server requires authentication.

Account Name
This section is to set an Email account name when the email server requires authentication.

Password
This section is to set a password when the email server requires authentication.

Send Email When Event Occurs
This section is to set NetAgent to send warning Email when an event occurs.

Recipient's Email Address (for Event Log)

This section is to set Email Addresses to receive warning email sent by NetAgent when an event occurs. It is valid for up to 8 Email addresses.

Event
This section is to select events for NetAgent to send warning email. Clicking on Select will open a Select Events List. Event email may be selected from this list. (The list is the same as under SNMP setting. Please refer to page 35, figure 31)

Recipient's Email Address (for Daily Report)
This section is to set Email Addresses to receive Daily Report email sent by NetAgent when an event occurs. It is valid for up to 4 Email addresses.

Send Email for Daily Report (hh:mm)
This section is to set a particular time for NetAgent to send Daily Report every day.

Send email when Event Log overflows (500 records)

Select **YES** to have NetAgent send a warning email stating Event Log has reached 500. The data will now be purged to make room for new data.

Send email when Data Log overflows (500 records)

Select **YES** to have NetAgent send a warning email stating Data Log has reached 500. The data will now be purged to make room for new data.

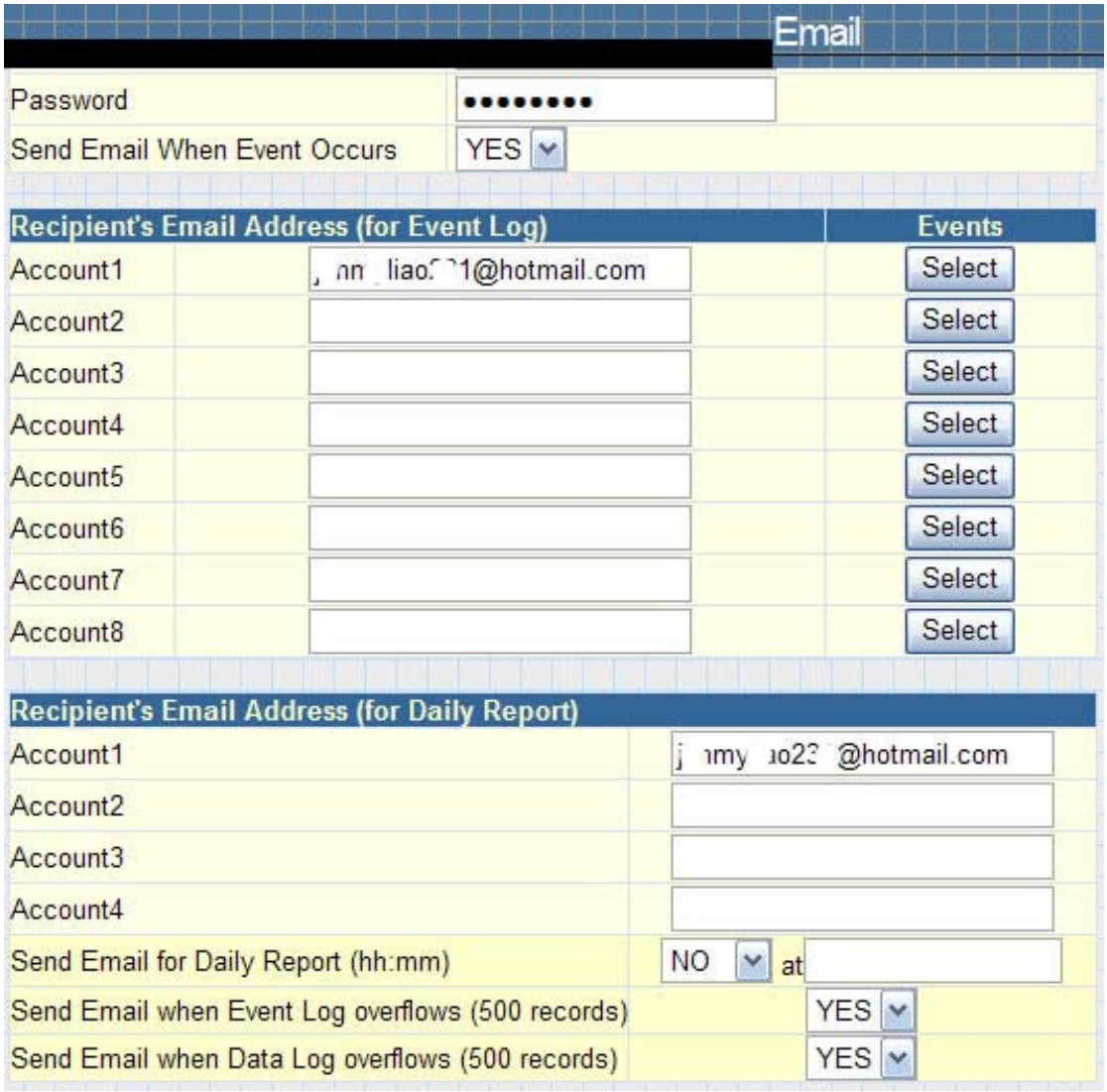

Email
Password
Send Email When Event Occurs
YES
Recipient's Email Address (for Event Log)
Events
Account1
Account2
Account3
Account4
Account5
Account6
Account7
Account8
Select
Recipient's Email Address (for Daily Report)
Account1
Account2
Account3
Account4
Send Email for Daily Report (hh:mm)
NO
at
Send Email when Event Log overflows (500 records)
YES
Send Email when Data Log overflows (500 records)
YES

Fig.32 Email

2.2.6 SMS

When NetAgent detects UPS events, it allows Short Message Signals ("SMS") be sent and received using a GSM Modem. Operation information are as below for single and three ports of NetAgent.

2.2.6.1 To send SMS by single port of NetAgent

It requires to use remote "SMSAgent" to send SMS.

SMS Settings

SMS Server, SMS Server Port

This section is to set SMSAgent's IP address (e.g. 192.168.0.180) and Port Number (default:80)

Account Name, Password

This section is to set SMSAgent's account, password (SMSAgent webpage→ Configuration→Web/Telnet)

Send SMS When Event Occurs

Select **YES** to receive SMS when an Event Occurs. **NO** (default) to disable

Receiver cellular number (for Event Log)

This section is to set the recipient's mobile number. A total of 8 mobile numbers can be assign. (Selectable events list is same as SNMP webpage. Refer to page 35, figure 31 :UPS Event)

Note: 1) Enter mobile number same as sending from mobile.
Note: 2) Please refer to SMSAgent's user manual for further information.

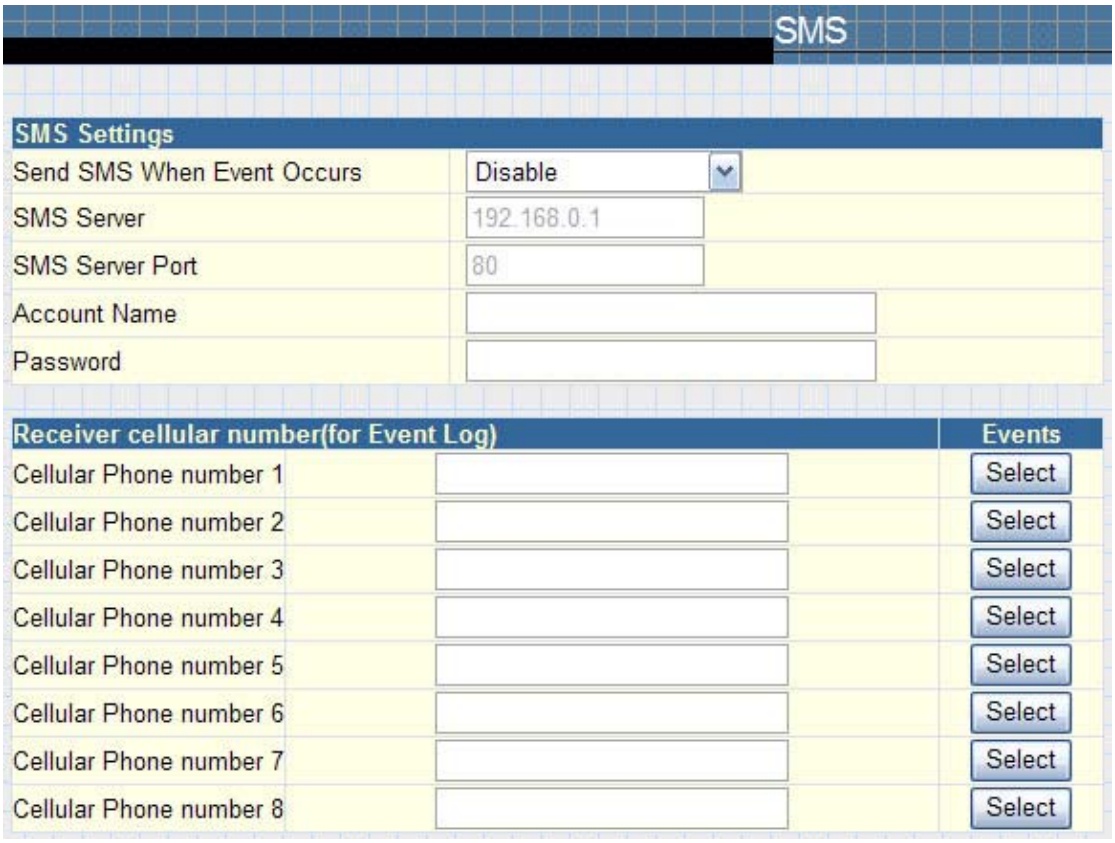


Fig.33 SMS

2.2.6.2 To send SMS by 3 ports of NetAgent

Choose between local modem or SMSAgent to send SMS.

Warning message through SMS when event occurs

Mode	Suitable Condition	Configuration
Disabled	Not to use SMS function	No configuration required.
Local Modem	When NetAgent connects with GPRS Modem.	Message service, port, account and password links to NetAgent's IP automatically.
SMSAgent	When NetAgent has no Modem connected.	Configure message service, port, account and password same as send SMS by single port of NetAgent (refer to 2.2.6.1)

Recipient's mobile number (Event Notification)

This section is to set the recipient's mobile number. A total of 8 mobile numbers can be assign. (Selectable events list is same as SNMP webpage. Refer to page 35, figure 31 :UPS Event)

Note: 1) Enter mobile number same as sending from mobile.
Note: 2) Please refer to SMSAgent's user manual for further information.

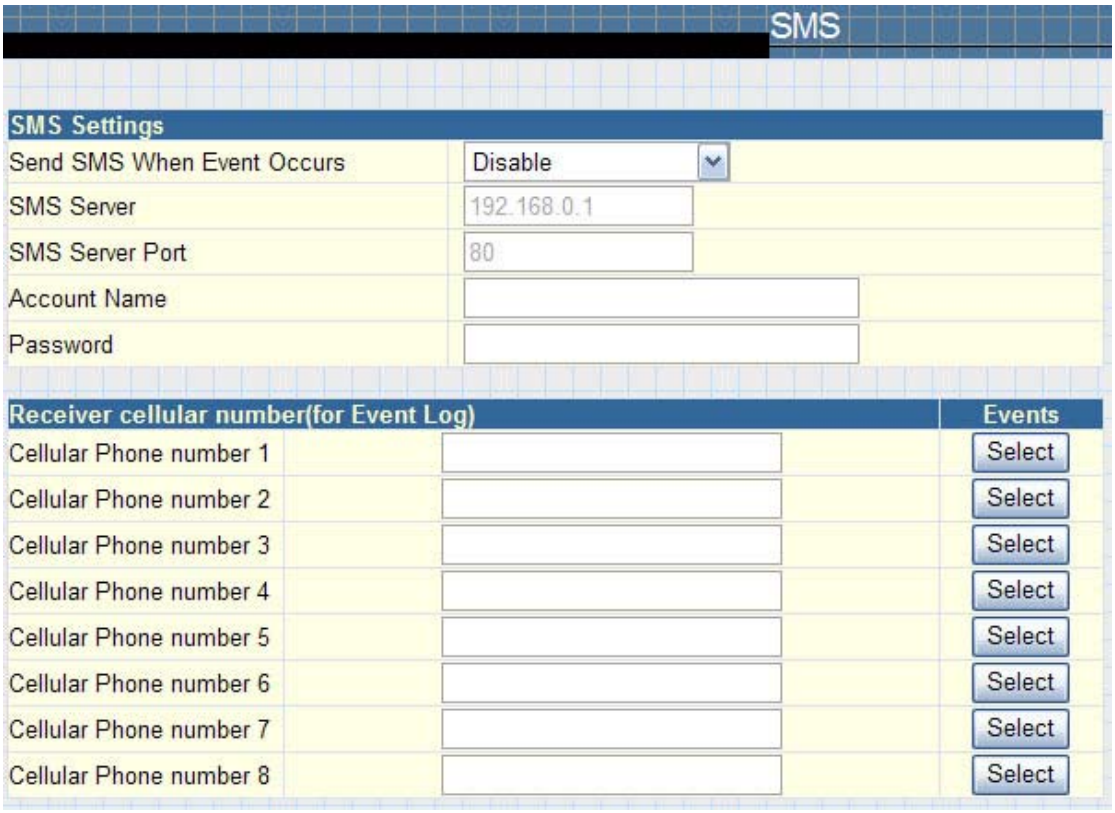


Fig.34 SMS

2.2.7 Modem (For 3 Ports NetAgent II only)

This section is to configure Modem's setting if 3 ports NetAgent connects with GPRS Modem.

Modem Setting

Modem Communication Interface

Communication Type	Suitable Condition
SMS	When NetAgent connects with Megatec's GPRS Modem
PPP Dial-in	When NetAgent connects with dial in modem

SMS Setting

SMS Communication

Communication Type	Suitable Condition
GPRS	To use with GSM 900/1800 frequency, and make sure the local telecom supports such service
CDMA	To use with GSM 800/900/1800 frequency, and make sure the local telecom supports such service

SIM Card PIN

Enter the SIM password

Confirm SIM Card PIN

SIM Password must match the one set above.

Receiver cellular number and message content

To send instant SMS, enter recipient's mobile number and SMS contents.

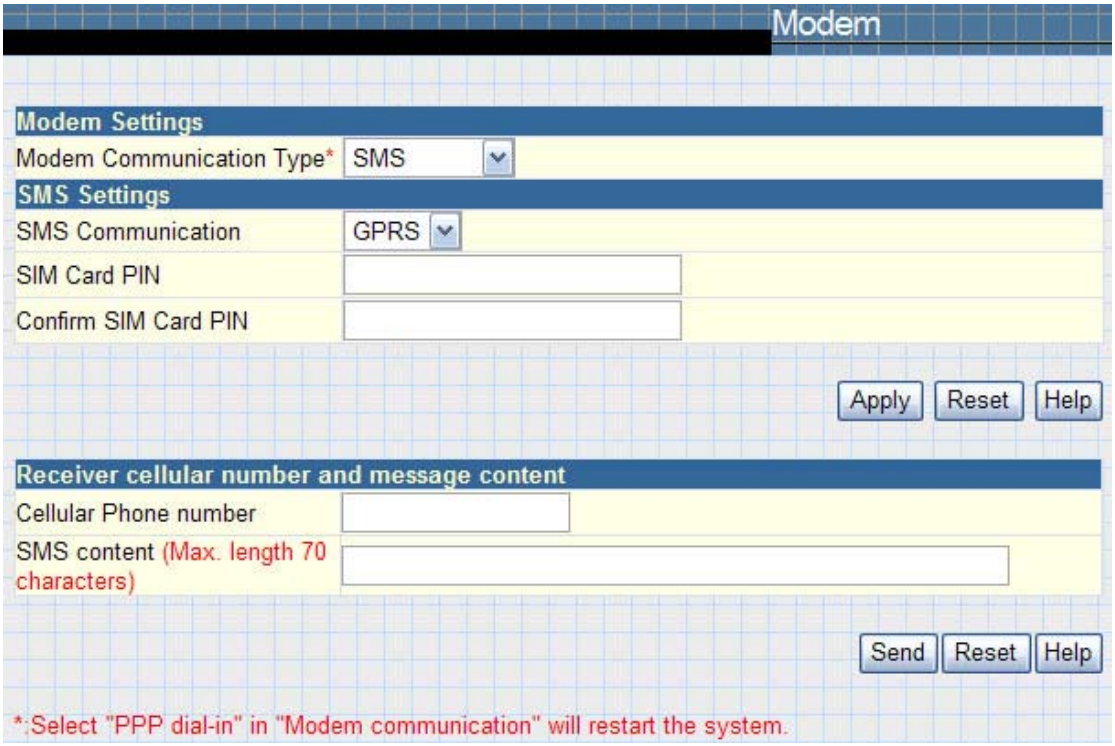


Fig.35 Modem

2.2.8 WEB/Telnet

This page is to set up the User Account in NetAgent.

User Account

User Name

This section is to set a user name for NetAgent web pages. It is valid for up to 8 users. Users have to input the user name to get access to NetAgent web pages from a web browser.

Password

This section is to set a password for NetAgent web pages. Users have to input the password to get access to NetAgent web pages from a browser.

Permission

This section is to set user's authorizations of Read, or Read/Write.

IP Filter

This section is to set a particular IP address. Users can only gain access to NetAgent web pages if they come from this IP address. If you want to manage NetAgent from any IP address, you can set it as *.*.*.*

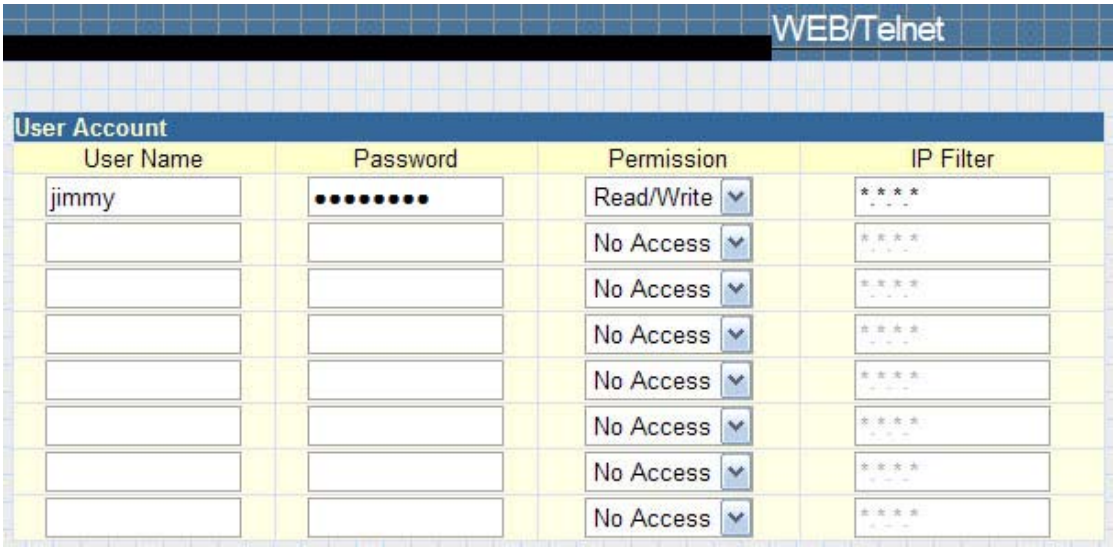


Fig.36 WEB/Telnet

2.2.9 System Time

This page is to set NetAgent system time. You can provide NetAgent with up to 2 time servers or you can set a time zone.

System Time

Time Between Automatic Updates

This section is to set an interval for time synchronization.

Time Server

Choose the nearest **Time Server** to your NetAgent location. The Administrator can choose from the list of a maximum of 30 Time Servers.

Time Zone (Relative to GMT)

This section is to set a different time zone for different countries.

System Time (yyyy/mm/dd hh:mm:ss)

This section is to set NetAgent system time manually.

Set this in the format: yyyy/mm/dd hh:mm:ss

Auto Restart

Auto Restart System for Every n Minute(s)

Use this setting to auto restart the system at a predetermined interval. The default value is set to “0” (disabled). Enter between, 1 to 9999 Minute (i.e., between 1 minute or 166.65 hour) or 1 to 9999 Hour (1 hour to 416.6 days).

Manual Restart System After 30 Seconds

Use this feature to manually restart the system NetAgent restart in about 30 seconds.

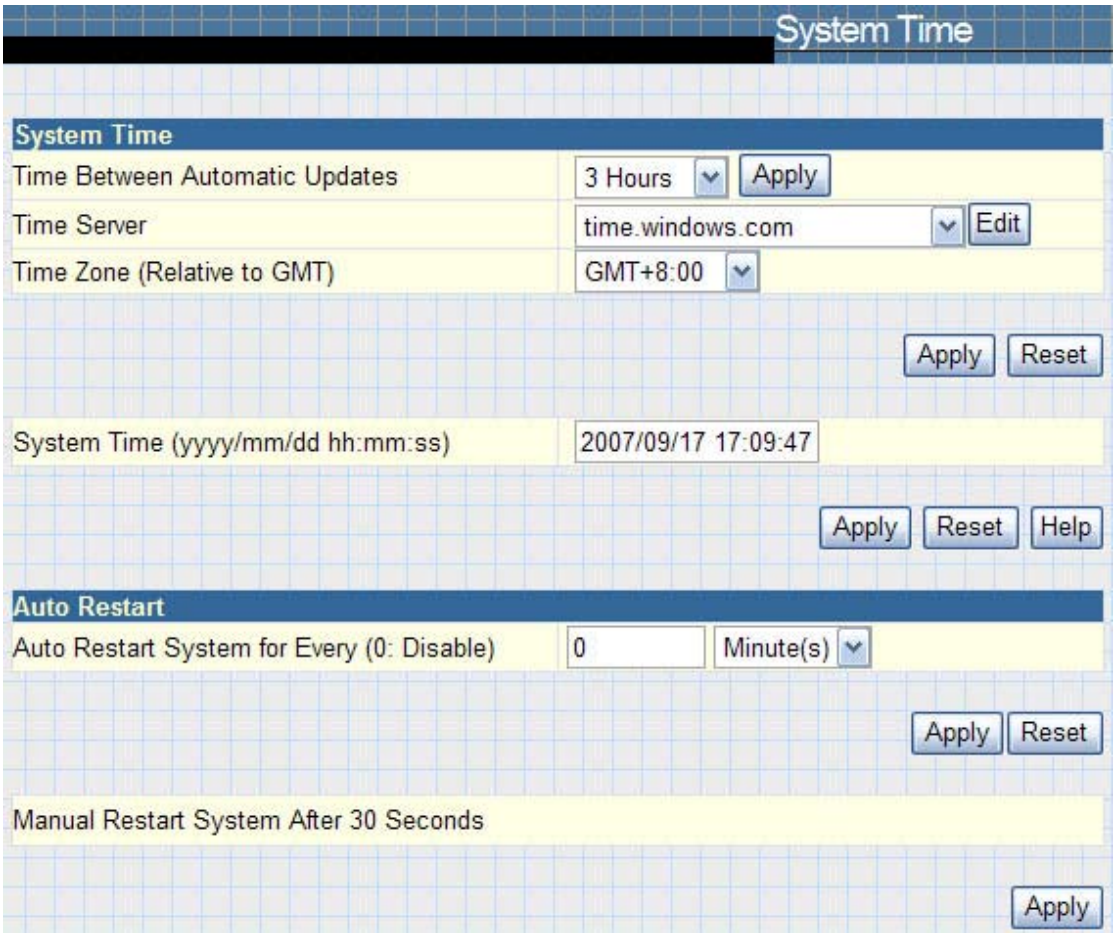


Fig.37 System Time

2.2.9 NetFeeler Lite (For 3 Ports NetAgent II only)

This page is to set Environment sensors-NetFeeler Lite configurations.

NetFeeler Lite

Critical UnderRun

This section is to set the lowest critical values for temperature and humidity. NetFeeler Lite will send a warning message when it detects temperature or humidity values below these settings.

Critical OverRun

This section is to set the highest critical values for temperature and humidity. NetFeeler Lite will send a warning message when it detects temperature or humidity values above these settings.

Security Label

NetFeeler Lite may connect up to 7 security sensors. This section is to set the location of searched sensor.

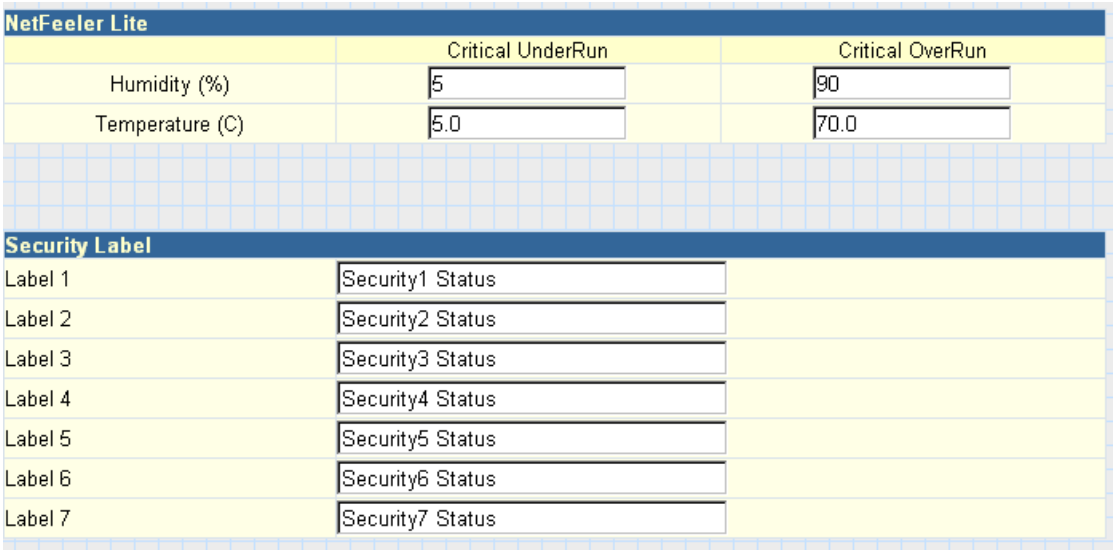


Fig.38 NetFeeler Lite

2.2.10 Language

This page is to set the language for NetAgent.

Interface Language

This section is to set the language for NetAgent web pages. When users start NetAgent in a browser, NetAgent will auto detect the language in the computer system and show the same language on its web pages. Users can also choose the languages they prefer from the “Interface Language” list.

Note: Users will have to enable cookies before they use this function.

Email Preferences

Tick it to apply the language preference to emails sent and SMS receipt.

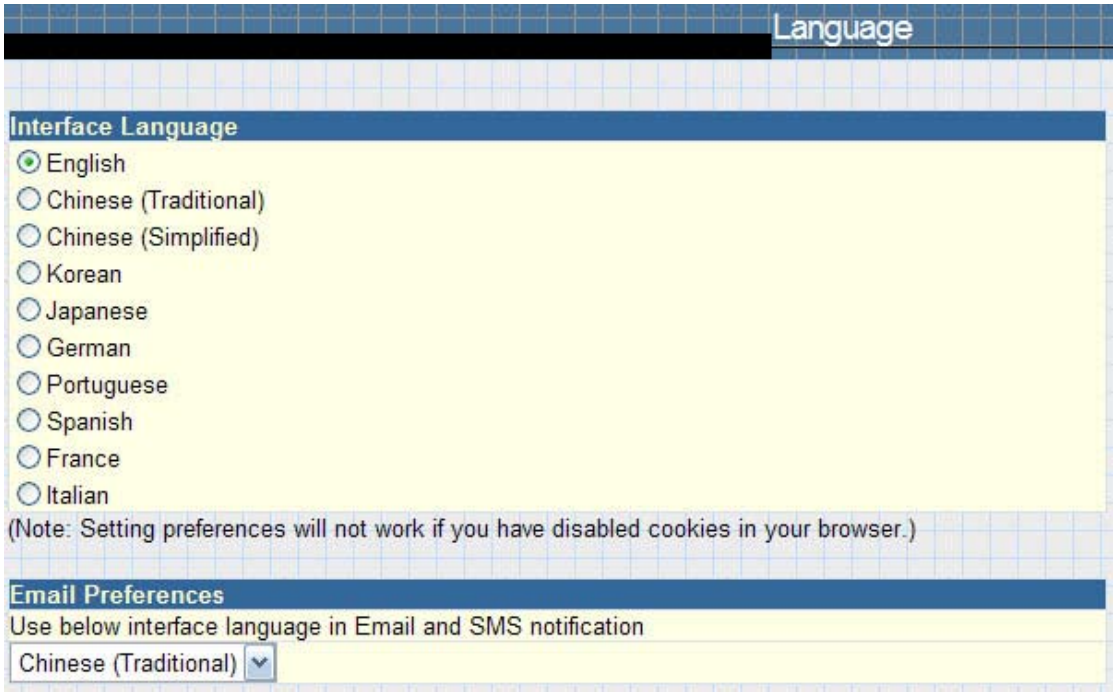


Fig.39 Language

2.3 Log Information

Sub-Menu :

- **2.3.1 Event Log**
- **2.3.2 SMS**
- **2.3.3 Data Log**
- **2.3.4 Save Data Log**

NetAgent Log Record		
Log Information	**Model**	
	Single Port(DP,CP)	**3Ports (BP)**
Event Log	100 logs	1000 logs
SMS Log	---	1000 logs
Data Log	500 logs	5000 logs

Fig.40 NetAgent Log Record

2.3.1 Event Log

This page is a UPS Event log. It shows a record of all events, giving the Date/Time of the event and a detailed description of each. When reach to the limit, it rewrites on the previous logs

Date/Time
This is a record of the Date (yyyy/mm/dd) and Time (hh:mm:ss) that the event occurred.

Description
This is a detailed description of the event.

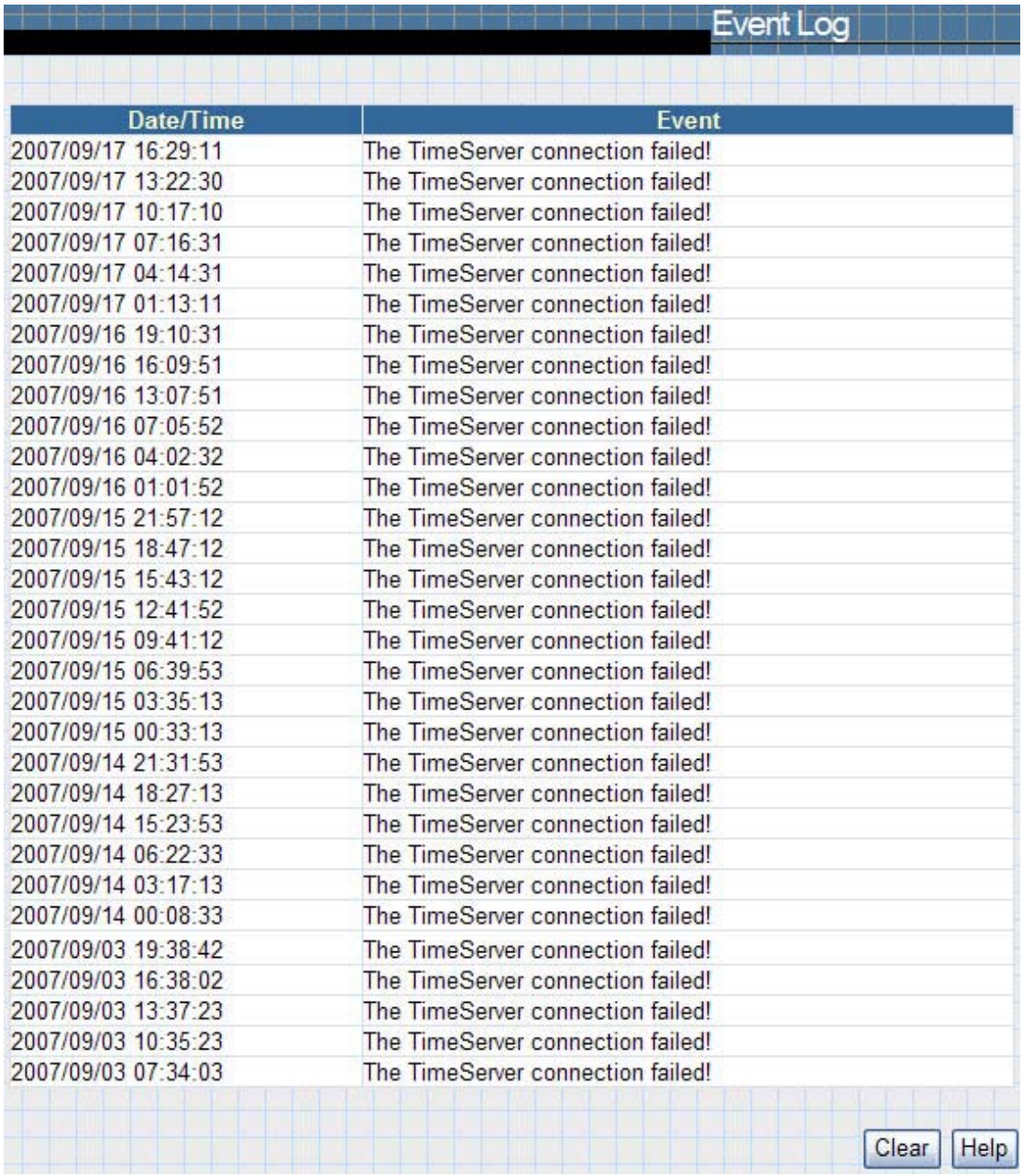

Event Log
Date/Time
Event
2007/09/17 16:29:11 The TimeServer connection failed!
2007/09/17 13:22:30 The TimeServer connection failed!
2007/09/17 10:17:10 The TimeServer connection failed!
2007/09/17 07:16:31 The TimeServer connection failed!
2007/09/17 04:14:31 The TimeServer connection failed!
2007/09/17 01:13:11 The TimeServer connection failed!
2007/09/16 19:10:31 The TimeServer connection failed!
2007/09/16 16:09:51 The TimeServer connection failed!
2007/09/16 13:07:51 The TimeServer connection failed!
2007/09/16 07:05:52 The TimeServer connection failed!
2007/09/16 04:02:32 The TimeServer connection failed!
2007/09/16 01:01:52 The TimeServer connection failed!
2007/09/15 21:57:12 The TimeServer connection failed!
2007/09/15 18:47:12 The TimeServer connection failed!
2007/09/15 15:43:12 The TimeServer connection failed!
2007/09/15 12:41:52 The TimeServer connection failed!
2007/09/15 09:41:12 The TimeServer connection failed!
2007/09/15 06:39:53 The TimeServer connection failed!
2007/09/15 03:35:13 The TimeServer connection failed!
2007/09/15 00:33:13 The TimeServer connection failed!
2007/09/14 21:31:53 The TimeServer connection failed!
2007/09/14 18:27:13 The TimeServer connection failed!
2007/09/14 15:23:53 The TimeServer connection failed!
2007/09/14 06:22:33 The TimeServer connection failed!
2007/09/14 03:17:13 The TimeServer connection failed!
2007/09/14 00:08:33 The TimeServer connection failed!
2007/09/03 19:38:42 The TimeServer connection failed!
2007/09/03 16:38:02 The TimeServer connection failed!
2007/09/03 13:37:23 The TimeServer connection failed!
2007/09/03 10:35:23 The TimeServer connection failed!
2007/09/03 07:34:03 The TimeServer connection failed!
Clear
Help

Fig.41 Event Log

2.3.2 SMS

This page is a SMS Event log. It shows a record of all mobile number, giving the Date/Time of the SMS sent and a detailed description of each. When reach to the limit, it rewrites on the previous logs

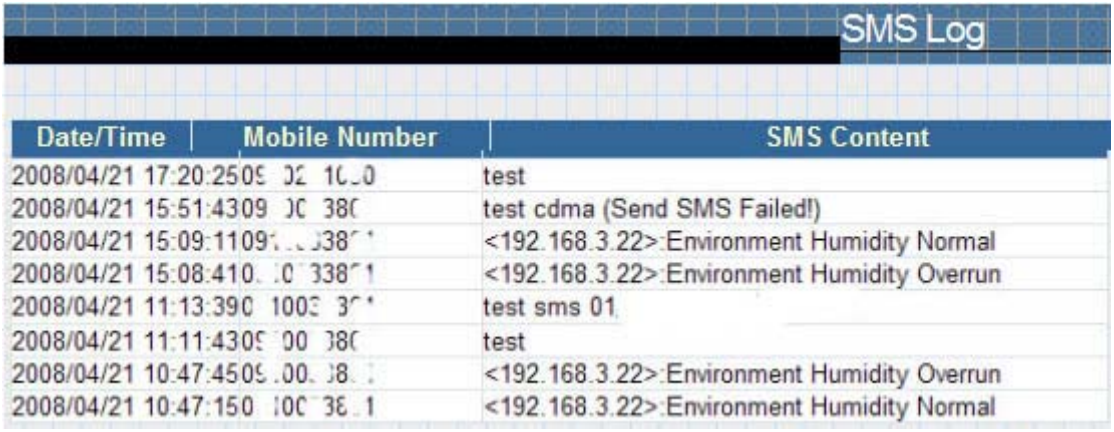


Fig.42 SMS Log

2.3.3 Data Log

This page is a UPS data log. It records UPS Input Voltage/Output Voltage/ Frequency/ Loading/Capacity/ Temperature. When reach to the limit, it rewrites on the previous logs. Logs can be saved in CSV format by clicking on “Save Data Log”.

Date/Time
This is a record of the Date (yyyy/mm/dd) and Time (hh:mm:ss) that the data was recorded. The interval between every log can be set in /Configuration/ UPS configuration/ UPS recorded/UPS data Log/.

Input Volt.
This section shows records of the UPS Input voltage readings. (Unit: Volt.)

Output Volt.
This section shows records of the UPS Output voltage readings. (Unit: Volt.)

Freq. (Hz)
This section shows records of the UPS Input Frequency. (Unit: Hertz)

Load
This section shows records of the UPS Output loading. (shown as %)

Capacity
This section shows records of the UPS battery capacity. (shown as %)

Temp.
This section shows records of the UPS internal temperature. (unit: degrees Centigrade)

Env. Temp.
This section shows environmental temperature which detected by NetFeeler Lite

Env. Humidity
This section shows environmental humidity which detected by NetFeeler Lite

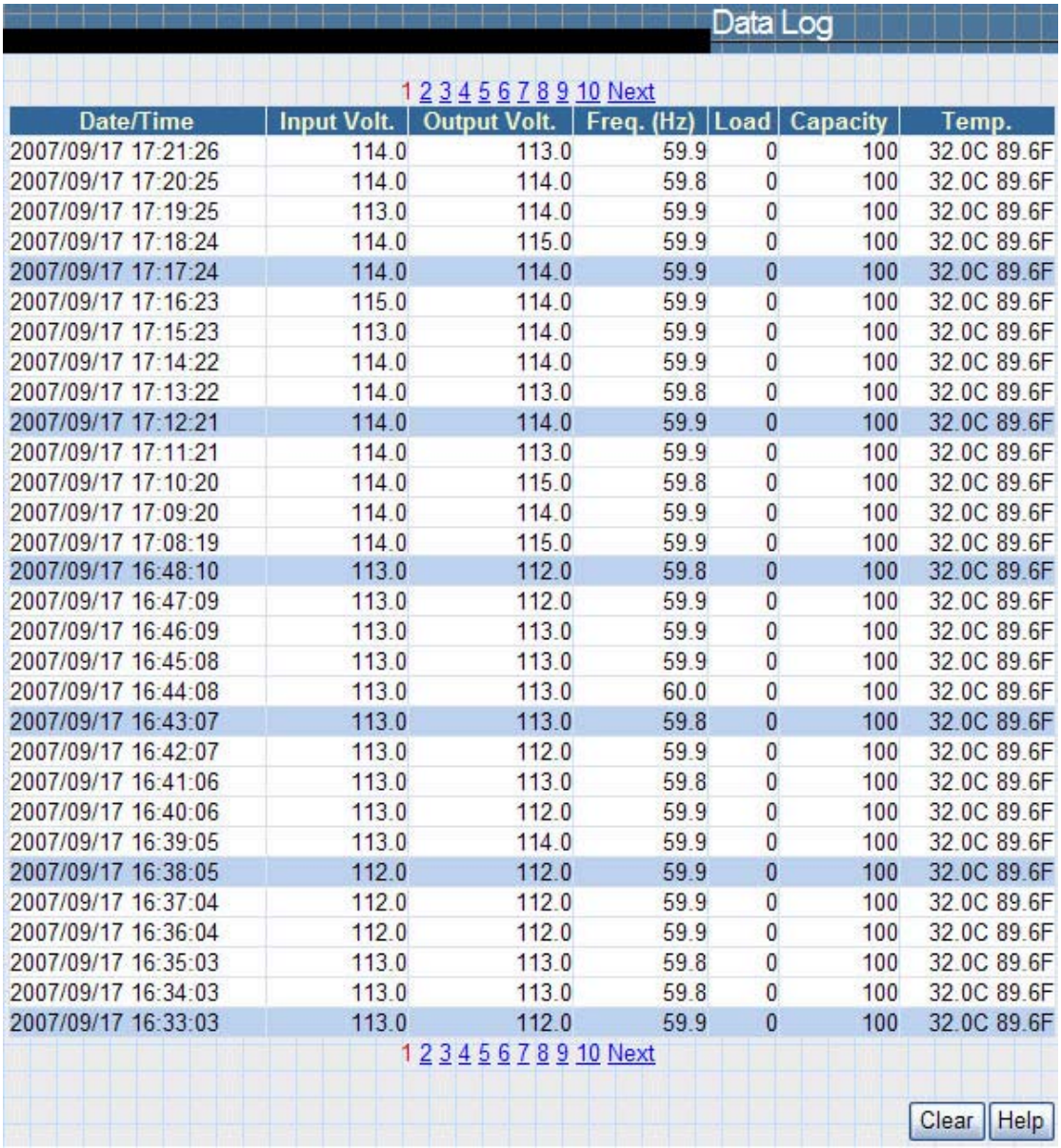


Fig.43 Date Log

2.3.3 Save Data Log

This function is to record RS232 UPS's voltage, frequency, load, capacity, temperature..etc to save as another file for the other purpose to the manager.

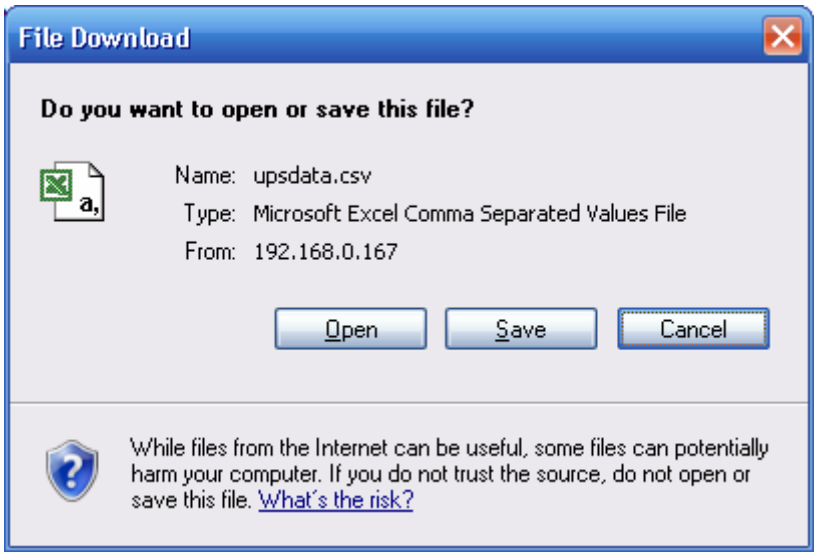

File Download
Do you want to open or save this file?
Name: upsdata.csv
Type: Microsoft Excel Comma Separated Values File
From: 192.168.0.167
Open
Save
Cancel
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?

Fig.44 Save Data Log

2.4 Help

2.4.1 Help

Displays the information about NetAgent

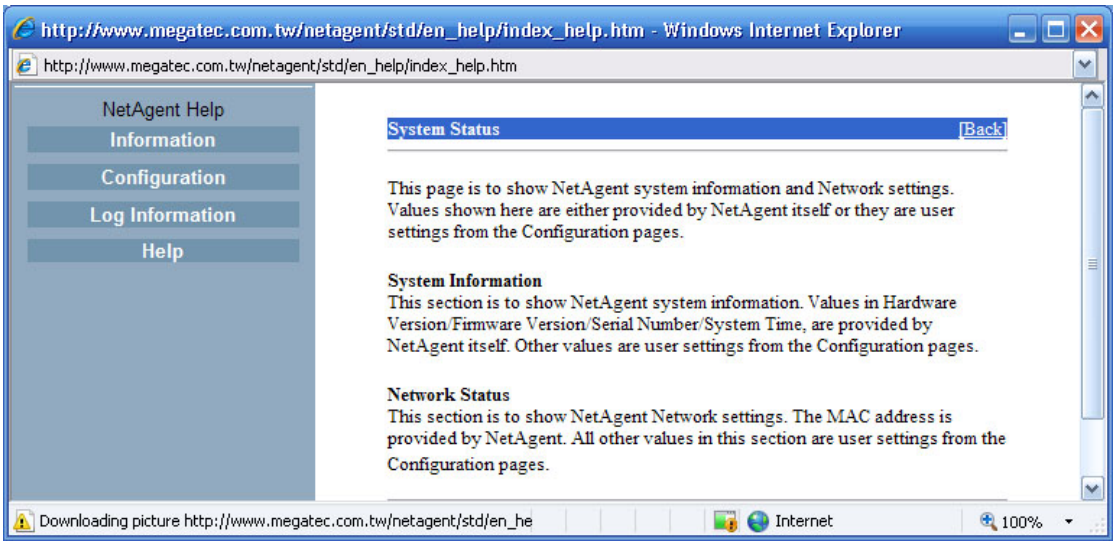

http://www.megatec.com.tw/netagent/std/en_help/index_help.htm - Windows Internet Explorer
http://www.megatec.com.tw/netagent/std/en_help/index_help.htm
NetAgent Help
Information
Configuration
Log Information
Help
System Status
[Back]
This page is to show NetAgent system information and Network settings. Values shown here are either provided by NetAgent itself or they are user settings from the Configuration pages.
System Information
This section is to show NetAgent system information. Values in Hardware Version/Firmware Version/Serial Number/System Time, are provided by NetAgent itself. Other values are user settings from the Configuration pages.
Network Status
This section is to show NetAgent Network settings. The MAC address is provided by NetAgent. All other values in this section are user settings from the Configuration pages.
Downloading picture http://www.megatec.com.tw/netagent/std/en_he
Internet
100%

Fig.45 Help

2.4.2 About

About

User may check Netagent's instruction, version of software/hardware,manufacture..etc from here

Save/Restore Settings

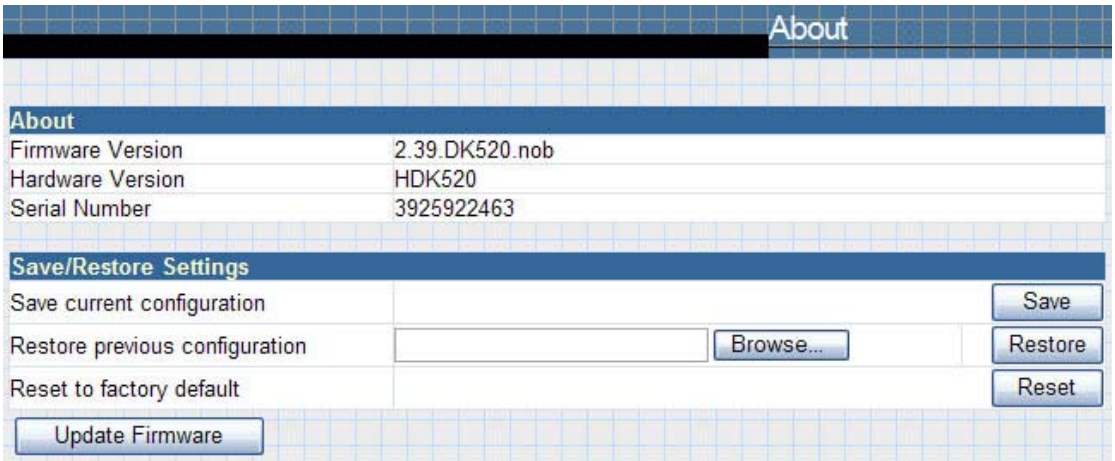
Click **Save** to save the configuration to your PC. The text file will have a default format of YYYY_MMDD_####**.cfg**. Administrator permission required. Use this function to restore a ***.cfg** configuration that has been saved earlier. Click **Browse**… to the location of the file and click **Restore**.

Reset to factory default

This function will reset all settings to its default value.

Update Firmware

This function will help you link to Megatec's Web server, in order to download the latest firmware.



Chapter 6. Telnet (Remote Monitoring)

Section1. Introduction

NetAgent supports multiple Network Management systems and LAN protocols. After finishing hardware installation, you are now able to choose any utilities that provided by NetAgent to monitor and control UPS.

Here are introduction for using Telnet.

Section2. Telnet Configuration

❶ Select “Start” from Windows, click “Run” to key-in NetAgent IP Address

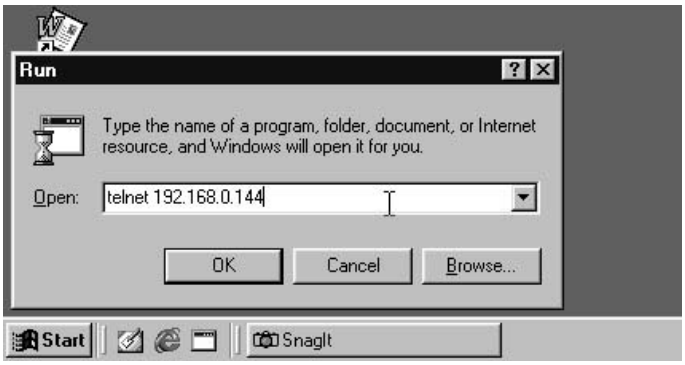


Fig.46 Telnet startup

❷ Successful link-up display:

Fig.47 Telnet Connection

❸Initial to setup, please press “Enter” to enter telnet main screen. If the User Name and Password had been set before, please enter actual value to access.

Fig.48 Telnet: Input User Name / Password

❹ Main screen is as follows:

Telnet - 192.168.0.144
Connect Edit Terminal Help
<<<<< Main Menu >>>>>
1. Set IP Address.
2. Set SNMP MIB System.
3. Set SNMP Access Control.
4. Set SNMP Trap Notify.
5. Set UPS Property.
6. Set UPS Devices Connected.
7. Set System Time & Time Server.
8. Set Web and Telnet User Account.
9. Set E-mail.
a. Reset Configuration to Default.
b. Save & Reboot.
0. Exit Without Saving.
Select =>

Fig.49 NetAgent Telnet window

1. Set IP Address.

This function allows you to setup IP Address, Gateway Address, Subnet Mask parameters.

2. Set SNMP MIB System.

This function allows you to set the MIB system group parameters.

3. Set SNMP Access Control.

This function allows you to set the Manager IP, Community, Access Permission.

Note: The configuration of 'Set SNMP Access Control' is only used for SNMP Network Manager.

4. Set SNMP Trap Notification.

If you want to use a PC and perform the 'Trap' function of SNMP manager to manage UPS through Net Agent, the IP address of the PC must be added in this list of Net Agent.

Note: The configuration of 'Set SNMP Trap Receiver' is only used for SNMP Network Manager.

5. Set UPS Properties.

This allows you to setup the Communication Type of UPS, UPS Device Name and Battery Replacement Date.

6. Set UPS Devices Connected.

This allows you to setup the System Name, Rating which connected., Connected.

7. Set System Time & Time Server.

This allows you to setup the System date, time and two time servers.

8. Set Web and Telnet User Account.

This is allows to set users account's authority.

9. Set E-mail.

This is allows to set e-mail accounts to receive power event notification for emergency management.

a. Reset Configuration to Default.

Set all values to their default settings.

b. Save & Reboot.

Save the current configuration data, including any changes you have made, and reboot the Net Agent.

0. Exit Without Saving.

Exit, all configuration changes will be lost.

Chapter 7. ClientMate - Windows Shutdown Utility

ClientMate is a utility for connecting to NetAgent. This utility is for the Windows platform. When the ClientMate get the power failure signal from the NetAgent. The ClientMate will save the files and shutdown the system gracefully. When the hardware installation of the NetAgent has been completed, you could install the ClientMate on any of the Windows system on the network. When the ClientMate detects the AC Fail, Battery Low, Schedule Shutdown signals from the NetAgent, it will save the file and shutdown the system. Please check the operation description here below.

Section1. Install ClientMate

❶ Put the NetAgent Utility CD into the CD driver. And execute the “ClientMate” program.

❷ After complete installation, there will be a ‘ClientMate’ group in the Windows Start group.

Fig.50 ClientMate Group

❸ Click “ClientMate” to initiate the ClientMate and start using the ClientMate.

Section2. Using ClientMate

Please find the ClientMate main window here below:press the left icon to enter the configuration dialog. On the right of the window is the current status of the UPS.

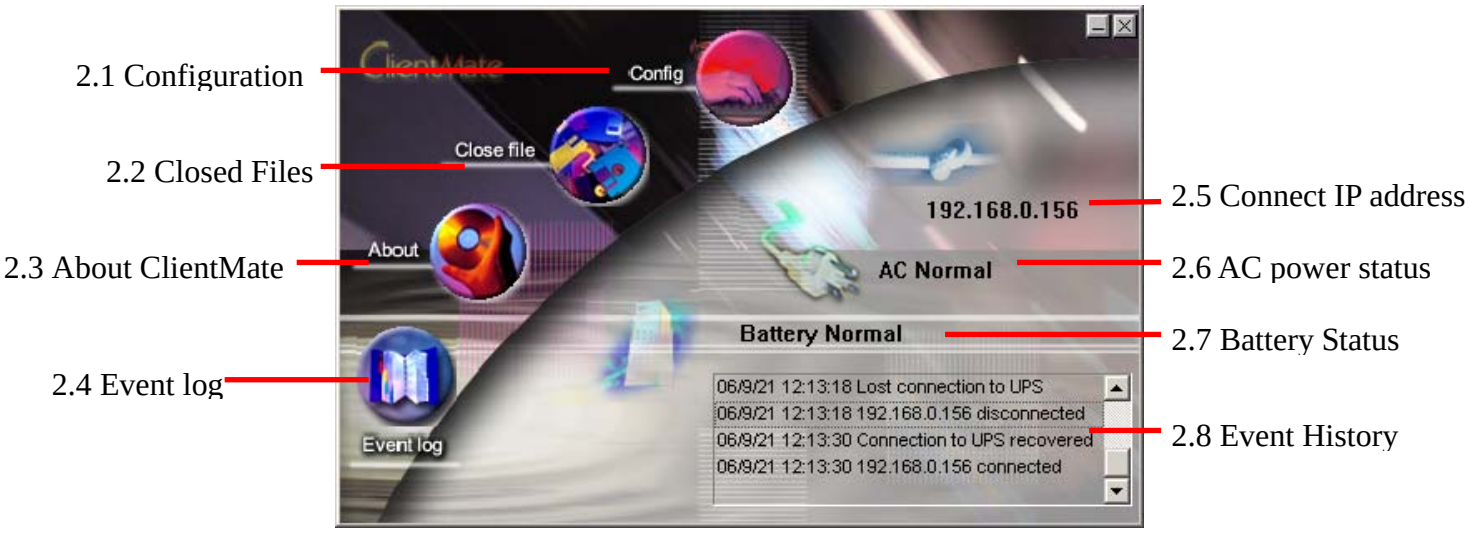


Fig.51 ClientMate main window

2.1 Config

When the ClientMate gets the signal from the NetAgent about the AC power failure or battery low signals, the ClientMate will based on the configuration below to initiate the shutdown process. The details of the configuration are here below.

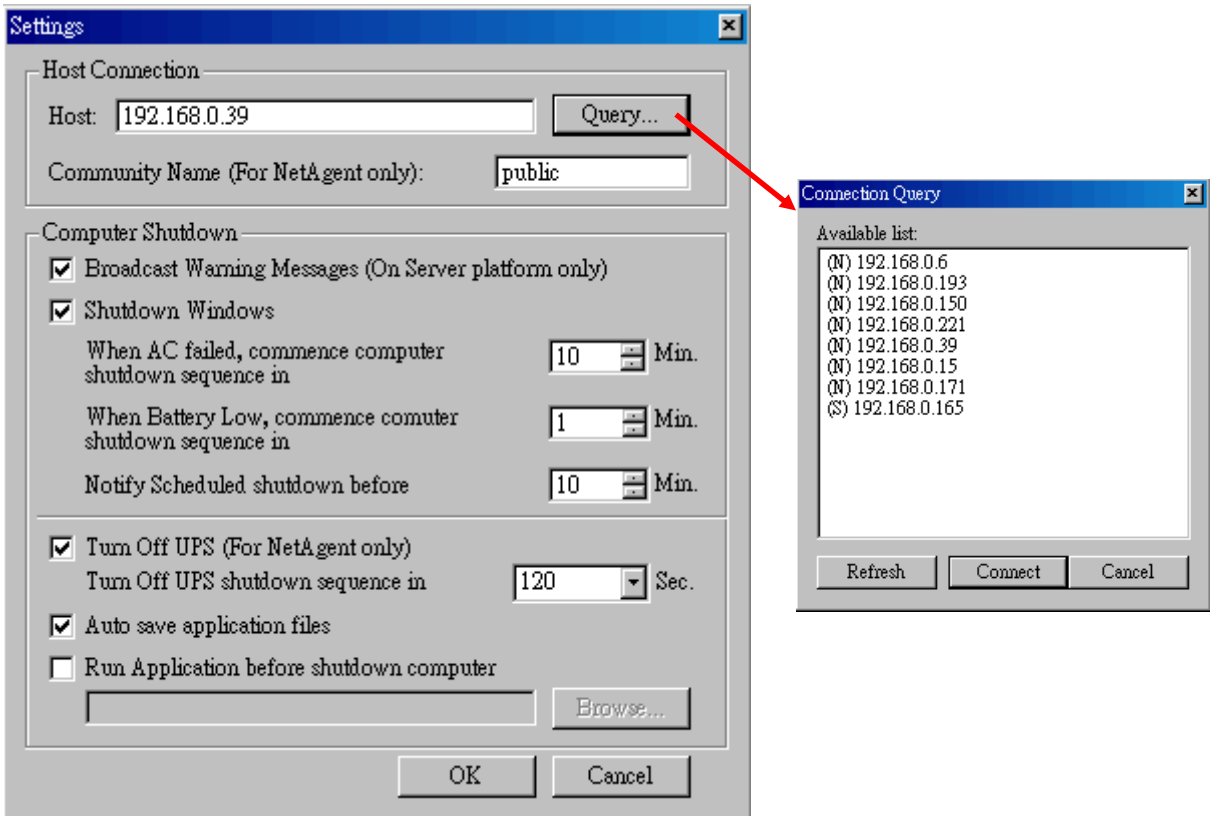


Fig.52 ClientMate: Configuration

i. Host Connection

Configure the Host connection IP address.

ii. Host

Press the “Query” to search the host on the network automatically. If a host located on different network segment. Please input the IP in the HOST edit box. The IP searched on the Connect Query:

(N): The NetAgent Host

(S): The UPSilon2000 or RUPS2000 Host

iii. Community Name (For NetAgent only)

The community name of the NetAgent, thus the ClientMate could be able to make connection to NetAgent.

iv. Computer Shutdown

Setting the shutdown configurations.

v. Broadcast Warning Messages (On Server platform only)

To configure if sending the warning messages when power failed (only for WinNT, Win2000 and XP server operating system)

vi. **Shutdown Windows**
To configure if shutdown the Windows system when power failure.

vii. **When AC failed, commence computer shutdown sequence in xx Min.**
To configure the time delay between the AC failure and the system shutdown.

viii. **When Battery Low, commence computer shutdown sequence in xx Min.**
To configure the time delay between the Battery Low and system shutdown.

ix. **Notify Scheduled shutdown before xx Min.**
Time before the 'Schedule Shutdown' to make notification.

x. **Turn Off UPS (For NetAgent Only)**
Setting if to turn-off NetAgent UPS AC power after system shutdown.

xi. **Turn Off UPS shutdown sequence in xx Sec.**
Time delay of turn-off the UPS power.

xii. **Auto save application files**
Check if to save the application files before system shutdown.

xiii. **Run Application before shutdown computer**
Execute the application before system shutdown.

2.2 Closed Files

User could review all the files closed during previous shutdown process. If the "Auto save application files" function has been turn-on in the "Setting" dialog, the details of the closed application and files could be reviewed here.

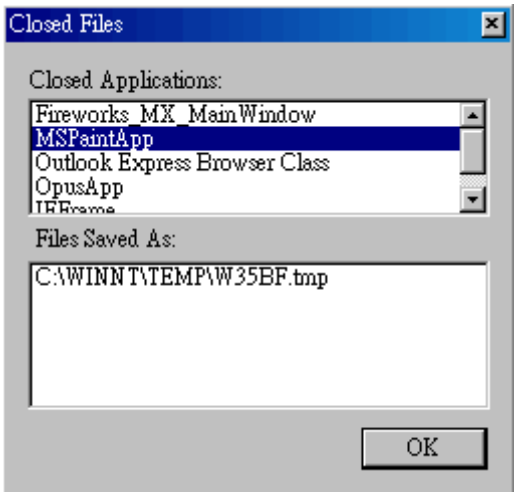


Fig.53 ClientMate: Closed Files

2.3 About

Press this button could review the version information of the ClientMate, as here bellowed.

Fig.54 ClientMate:About

2.4 Event log

Press this button could review all the network status and UPS status happened. Shown as below.

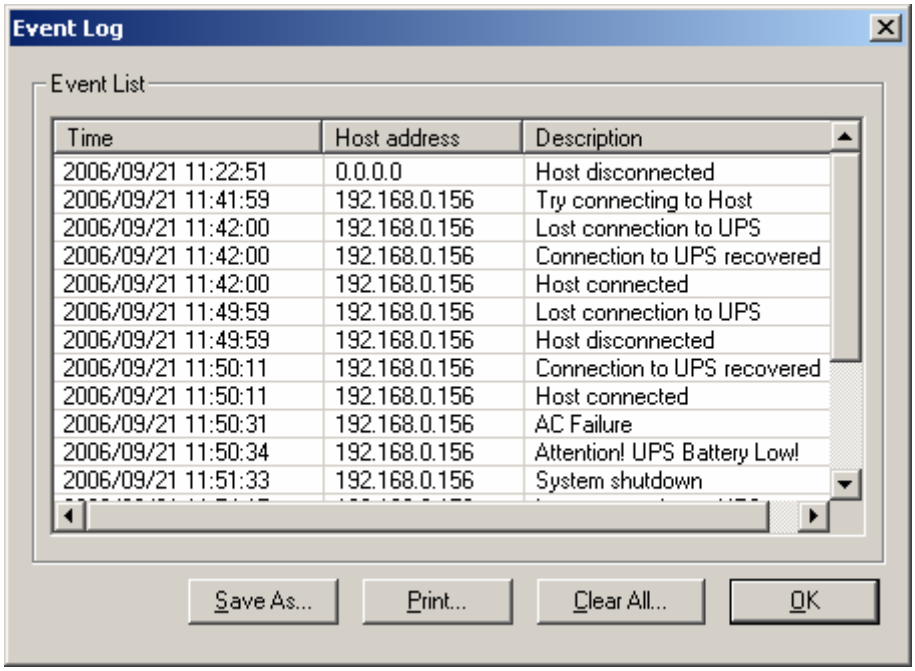
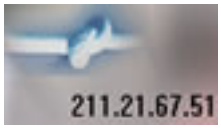
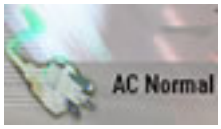


Fig.55 ClientMate:About

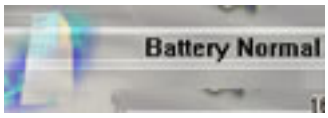
2.5 IP address of connection

Status ICON	Description
	Already connect to NetAgent UPS at IP 211.21.67.51
	Does not connect to any NetAgent.

2.6 AC power status

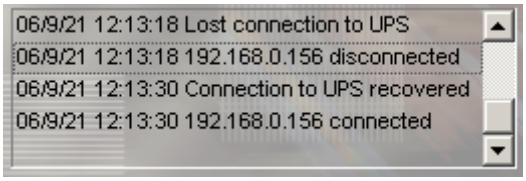
Status ICON	Description
	The connected NetAgent UPS AC power is normal.
	The connected NetAgent UPS AC power is failed.

2.7 Battery Status

Status ICON	Description
	The connected NetAgent UPS battery is in normal condition.
	The connected NetAgent UPS is in battery low condition.

2.8 Status History

In the right-lower corner of ClientMate, the ‘Status History’ showing all the network status and UPS status happened.



Chapter 8. SNMPView – Windows Based UPS Management System

Section1. Introduction

SNMPView is a software to remotely monitor and control multiple UPS connected to a network. When an event occurs, SNMPView can be programmed to send an email or a pager to inform the designated network manager. It can also inform the user of the UPS current condition or configuration, perform self-test, send a history file, turn the UPS On/Off and more.

SNMPView features;

❶ A windows interface that is simple and user friendly.
❷ Automatic detection and identification of any UPS with NetAgent II or NetAgent Mini connected to a network.
❸ Capable of simultaneously monitoring up to 1,000 UPS
❹ Remotely control, monitor, and manage the networked UPS (Turn On/Off, Self-test, etc...)
❺ Able to simultaneously support both RS-232 Interface (1 or 3 phase) and Contact Closure Interface UPS.
❻ UPS condition displayed in either a graphic or analog bar chart.
❼ Supports MegaTec's SNMP Agent and SNMP Internal Card.
❽ Able to send email for notification
❾ Able to send SMS for notification

Section2. System Requirements

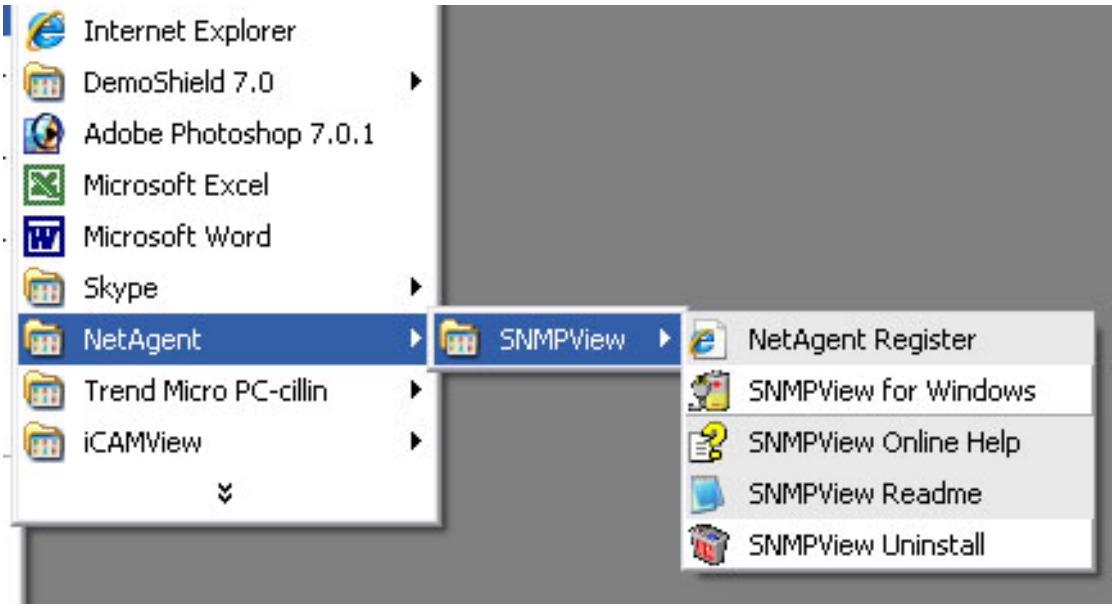
❶ LAN/WAN network system with TCP/IP
❷ RS-232 Interface or Contact Closure Interface UPS
❸ External SNMP Agent or SNMP Internal Card
❹ Microsoft Windows 95, 98, NT, 2000, XP, Me, 2003

Section3. Install SNMPView

❶ Put the NetAgent Utility CD into the CD driver. And execute the SNMPView program.

❷ After installation, there will be a NetAgent group in the Windows Start group.

❸ Click “NetAgent” → “SNMPView” → “SNMPView for Windows” to start using SNMPView.



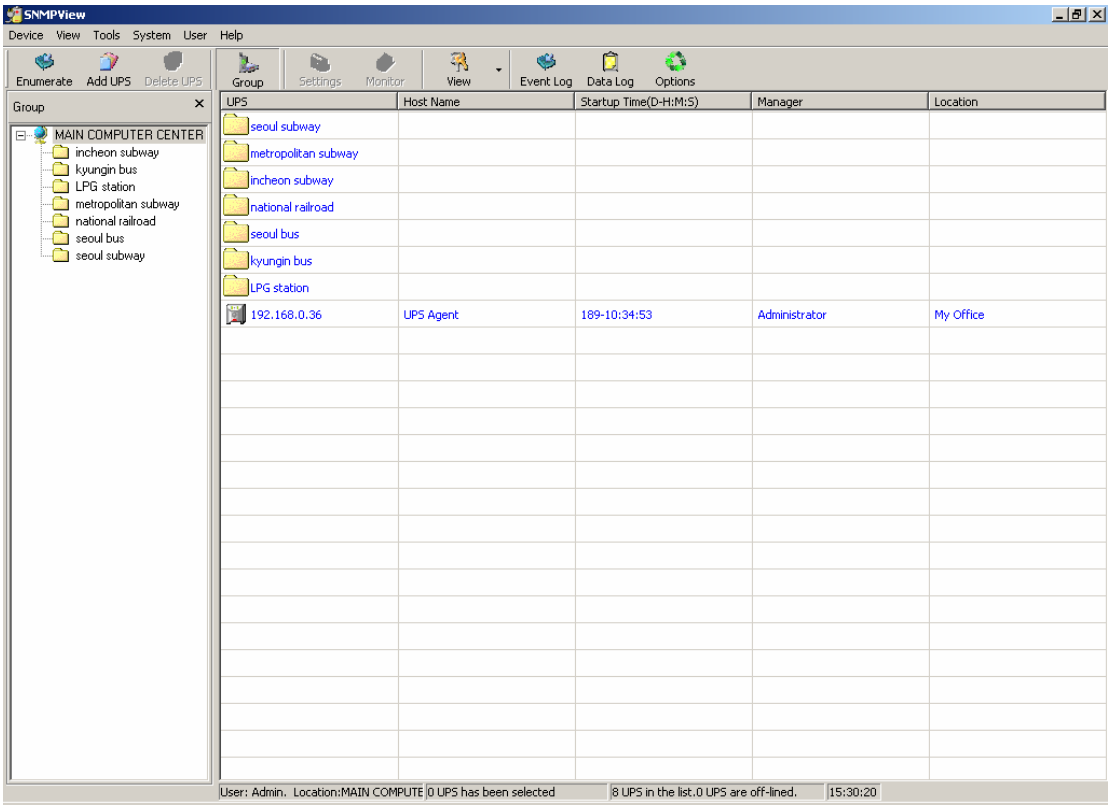
Section4. Using SNMPView

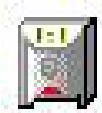
When use SNMP view at the first time, the system will ask for input the user's name and password. Please enter the default value as follows to start the SNMPView.

User Name: Admin

Password: <blank> (just press <Enter>)

After the SNMPView program start up the main windows will be displayed. The left panel will list the available stations by area and the right panel will list the UPS, Host Name, Startup Time, Manager and Location of UPS found in each station.





Shows that the device is a UPS

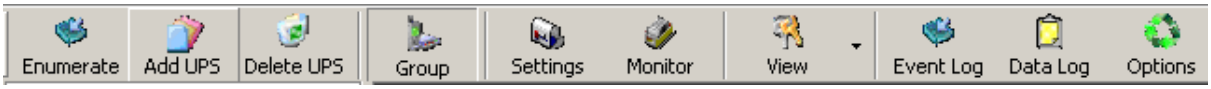
Shows that the UPS is Battery Low

Shows that the UPS is Disconnect / Off-Line

Section5. SNMPView Buttons

When use SNMPView, configuration could be done by all function icons displayed or right click on the mouse to show functions list.

Followings are the explanation of each function icon:



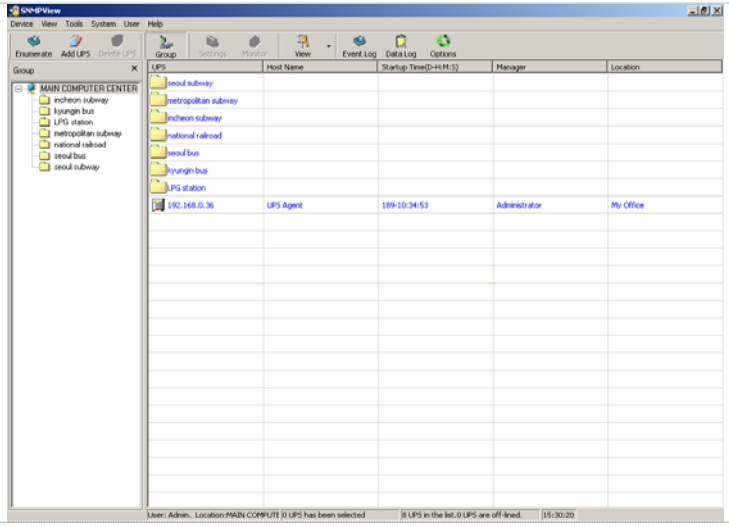
Enumerate	:	Search all SNMP hosts that supports Public group and display them on the screen
Add UPS	:	Manually add a host into the window
Delete UPS	:	Manually delete a host into the window
Group	:	Shows the Main group windows
Settings	:	If the host is a UPS, just click on it to view and modify the UPS's general information
Monitor	:	If the host is a UPS, just click on it to start monitoring UPS
View	:	Display in either, Large icons, small icons or details
Event Log	:	Records the UPS, date, time and description of an event.
Data Log:	:	Records data of all UPS listed.
Options	:	Sets the SNMP Parameter for community, Trap port and UPS SNMP port

Following is the main function icons and its reference chapter.

Main List	Sub List
5.1 Device(D)	• 5.1.1 Enumerate • 5.1.2 Add Group • 5.1.3 Add UPS • 5.1.4 Delete • 5.1.5 Browse Device
	• 5.1.6 Export Configurations 5.1.7 Import Configuration
	• 5.1.8 Open archive Event Log • 5.1.9 Open archive Data Log
	• 5.1.10 Quit
5.2 View(S)	• 5.2.1 Large Icons • 5.2.2 Small Icons • 5.2.3 Details • 5.2.4 Map Background
5.3 Tools(P)	• 5.3.1 UPS Settings • 5.3.2 UPS Monitor
	• 5.3.3 SNMP Management
5.4 System(S)	• 5.4.1 Event Log • 5.4.2 Data Log • 5.4.3 SNMP Option
5.5 User(U)	• 5.5.1 Change Password • 5.5.2 Account Management
5.6 Help(H)	• 5.6.1 Help
	• 5.6.2 About

5.1 ENUMERATE(D)

Start SNMPView and press the "Enumerate" button, SNMPView will start a search for all the NetAgent on network and list them in the main window.

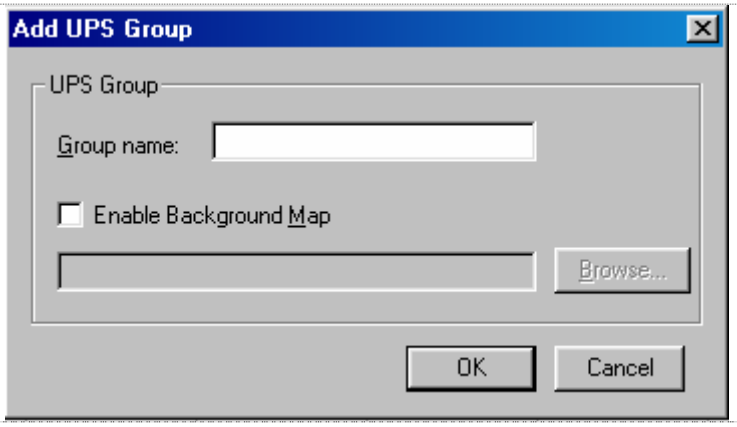


5.1.1 Enumerate

When press , SNMPView will start a search for all the NetAgent on network and list them in the main window.

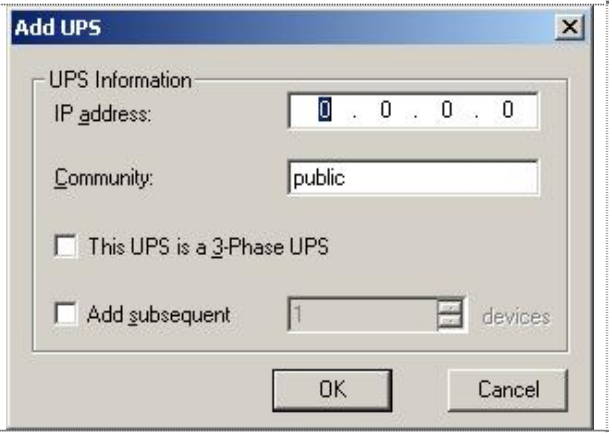
5.1.2 Add Group

This is to edit or display all the group station of NetAgent under network



5.1.3 ADD UPS

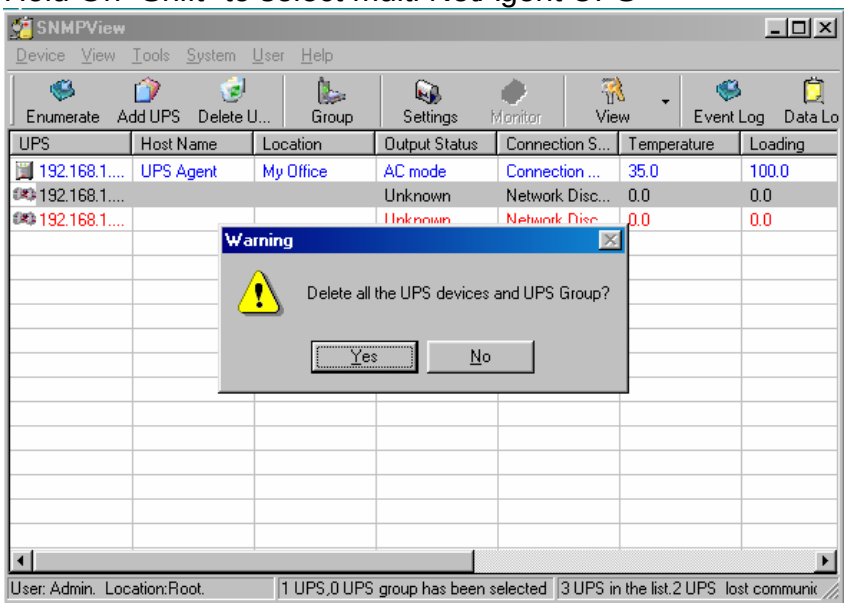
Click "Add UPS" to enter the IP address of the UPS manually. Once entered, the UPS will be shown on the main list.



5.1.4 DELETE UPS

Highlight the unit to be deleted from main list and right click on it to choose Delete or use click on the Delete icon from main function list.

Hold On “Shift” to select multi NetAgent UPS

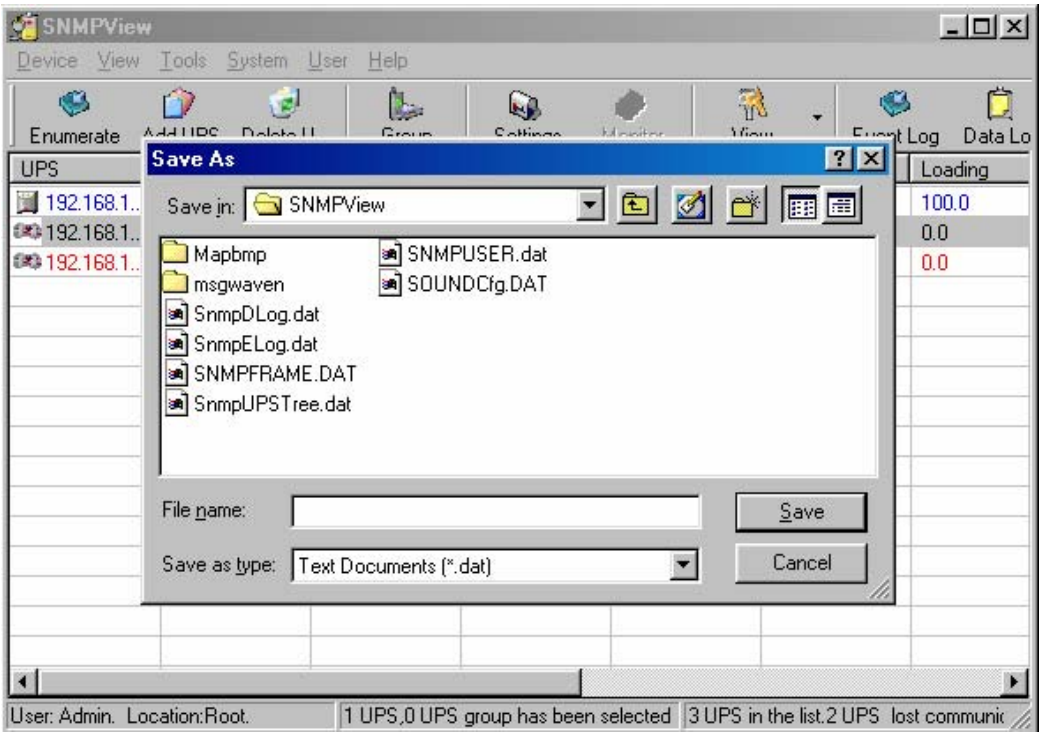


5.1.5 Browse Device

Highlight the unit to be browsed and click it to enter NetAgent’s webpage.

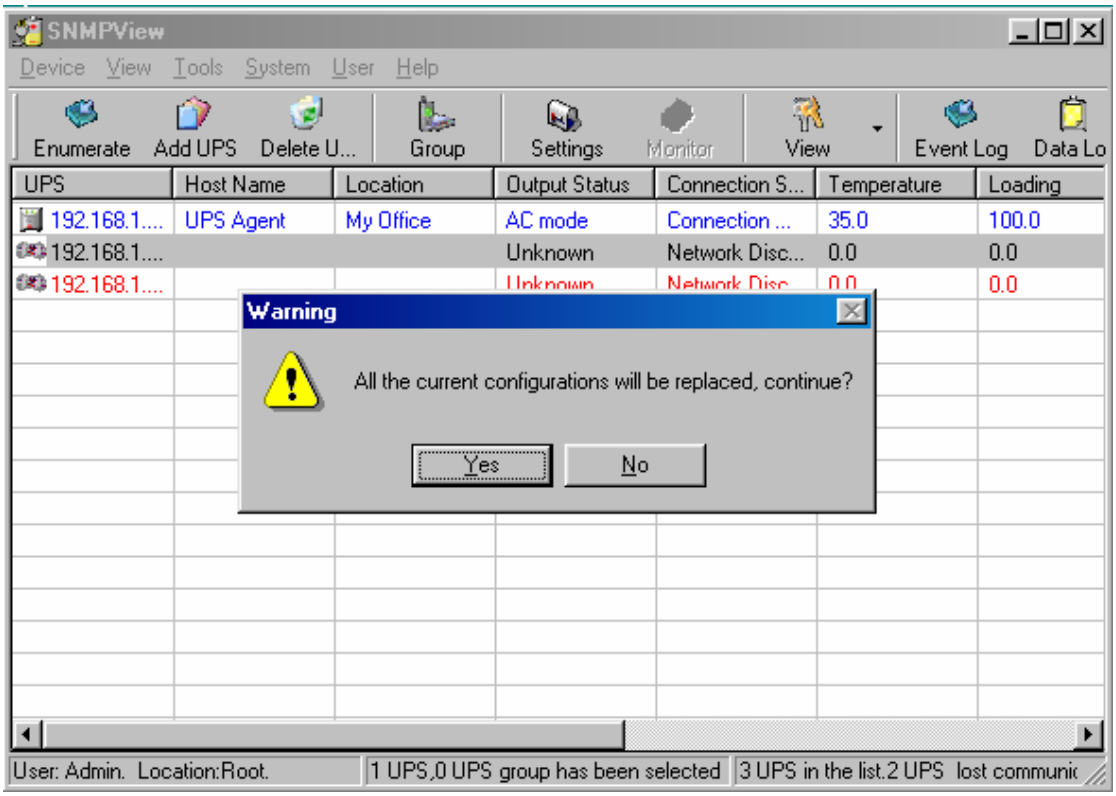
5.1.6 Export Configuration

This is to save the NetAgent UPS’s configuration



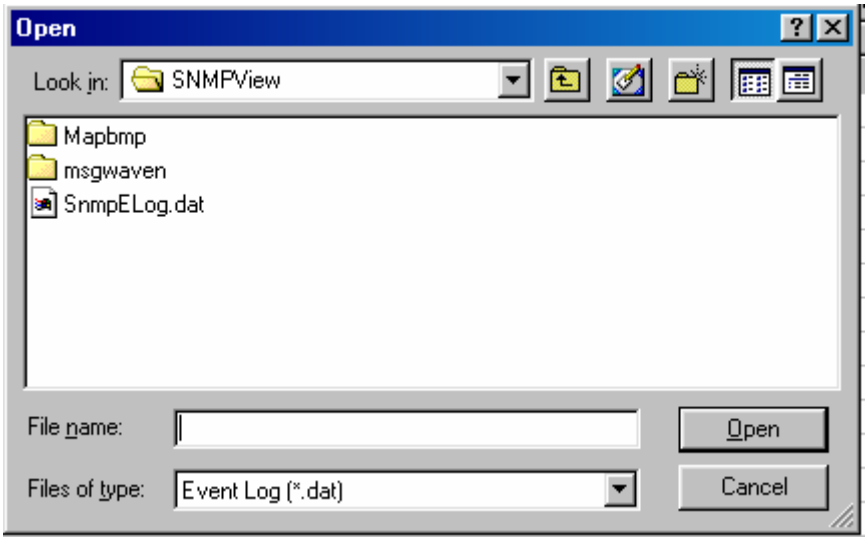
5.1.7 Import Configuration

This is to import the configuration of NetAgent UPS that saved

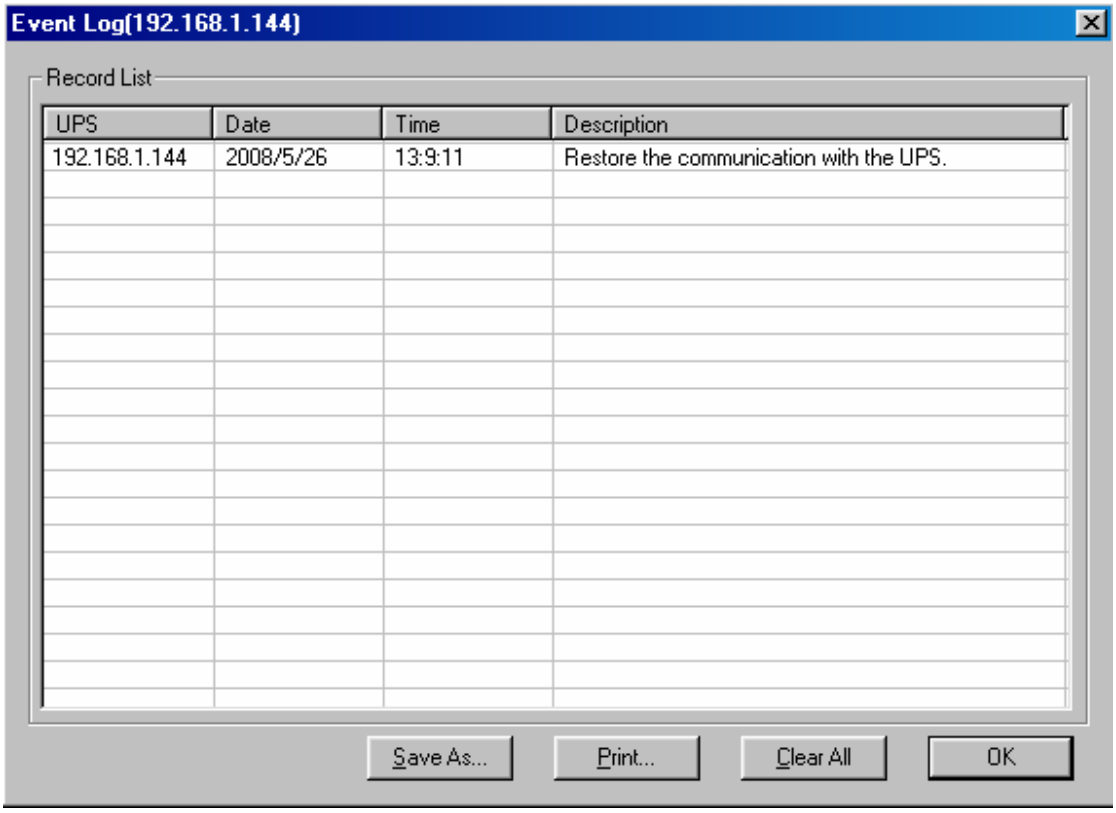


5.1.8 Open archive Event Log

Open up “SnmpElog.dat”, SNMPView would show the event log of all NetAgent UPS:

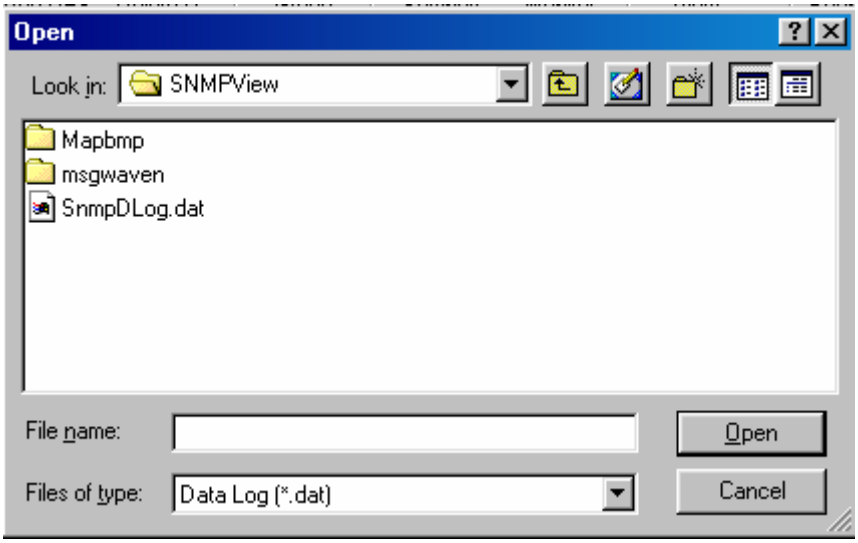


Open up “SnmpElog.dat”, event log would show as below:

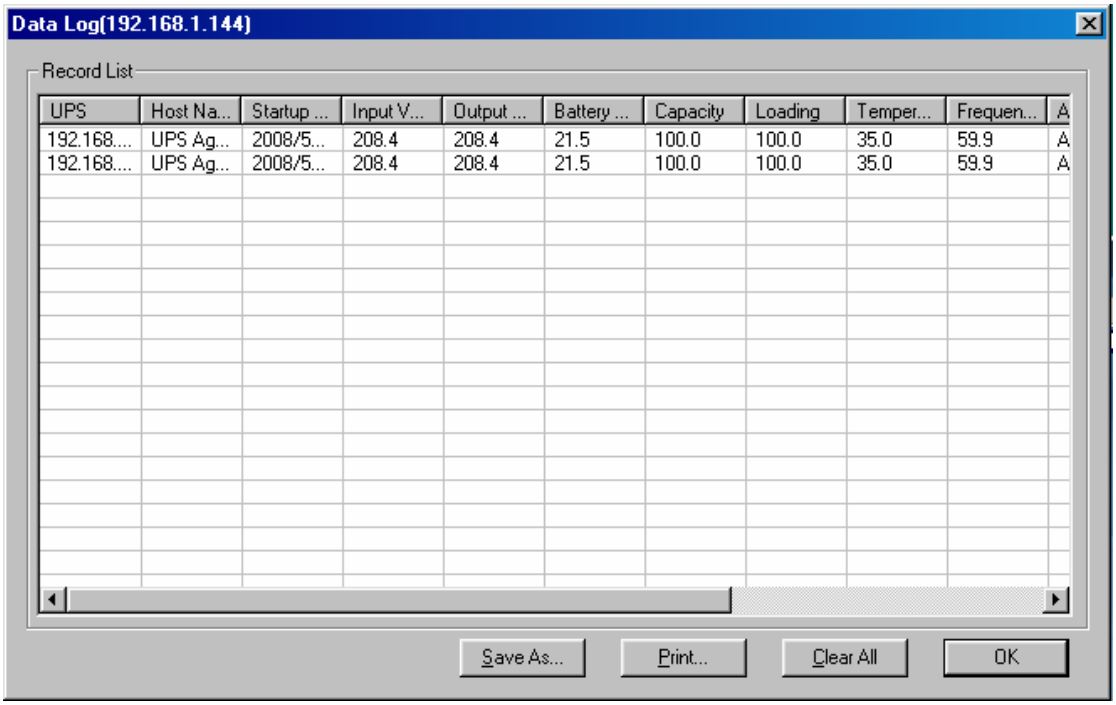


5.1.9 Open archive Data Log

Open up “SnmpDlog.dat”, SNMPView would show the event log of all NetAgent UPS:



Open up “SnmpDlog.dat”, data log would show as below:



5.1.10 Quit

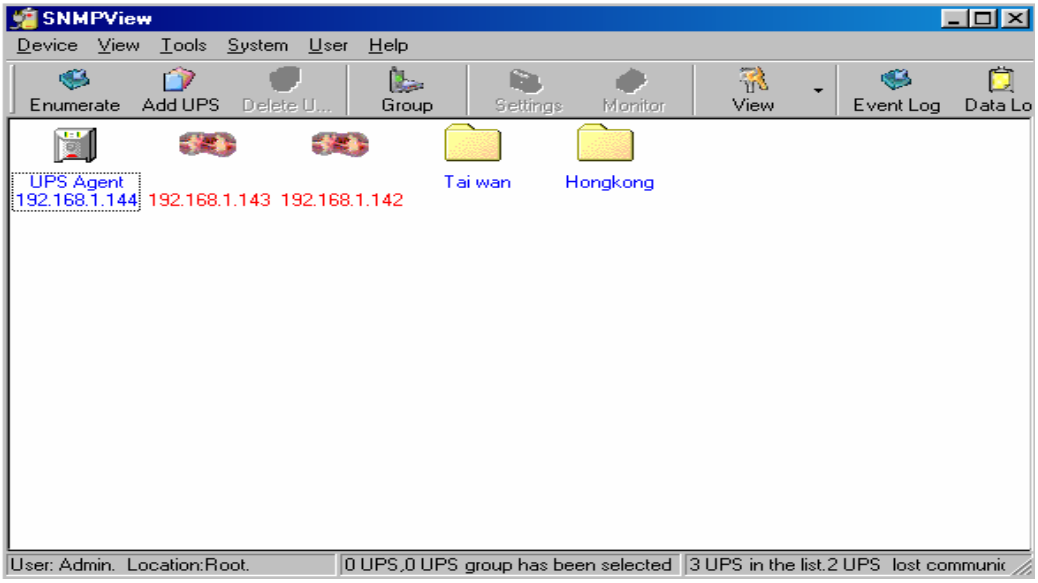
Exit SNMPView

5.2 View(S)

This is to choose the presentation format of NetAgent UPS.

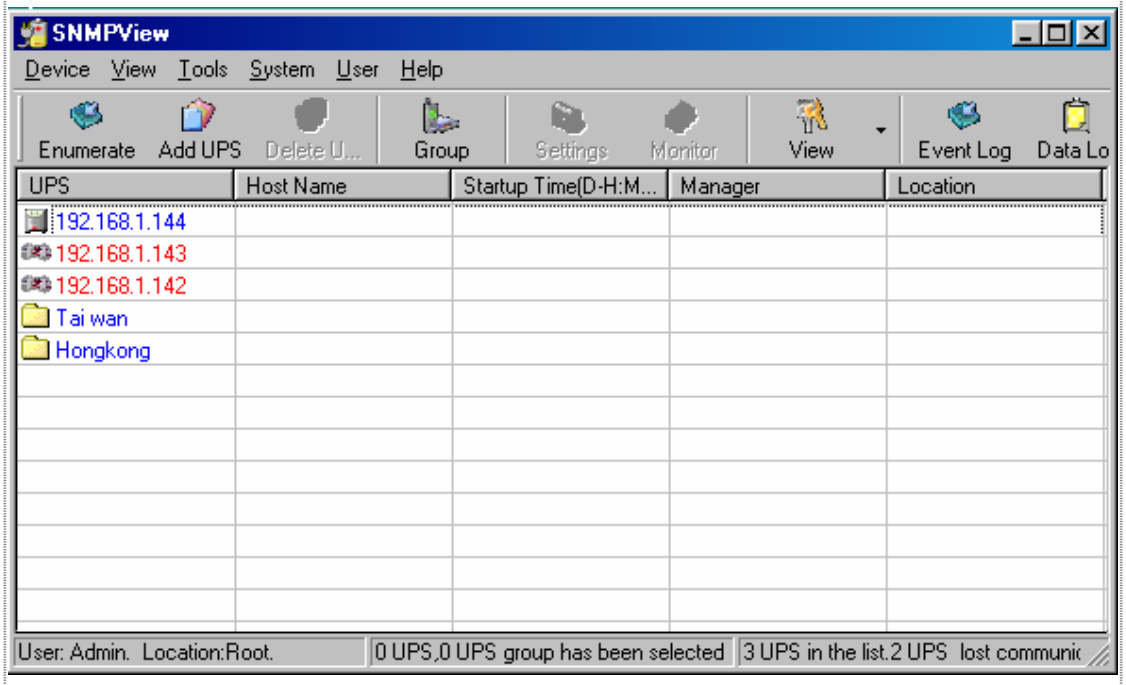
5.2.1 Large Icons

Large icon view to display IP address and its location.



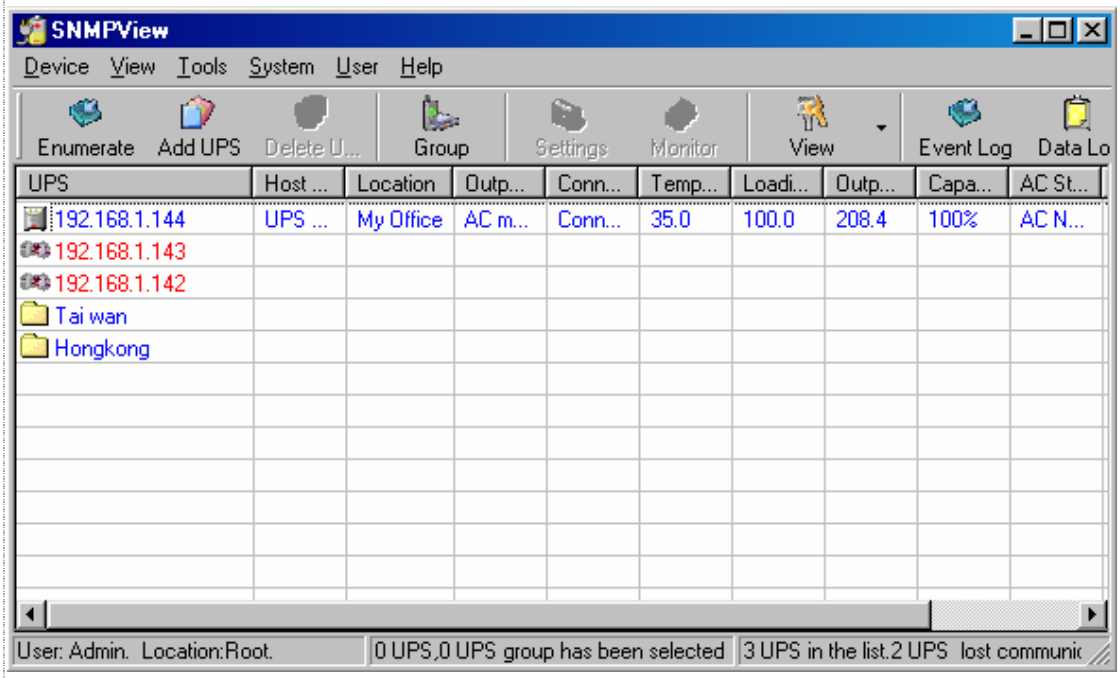
5.2.2 Small Icons

Small icon view to display NetAgent UPS's IP address, Name, location…etc



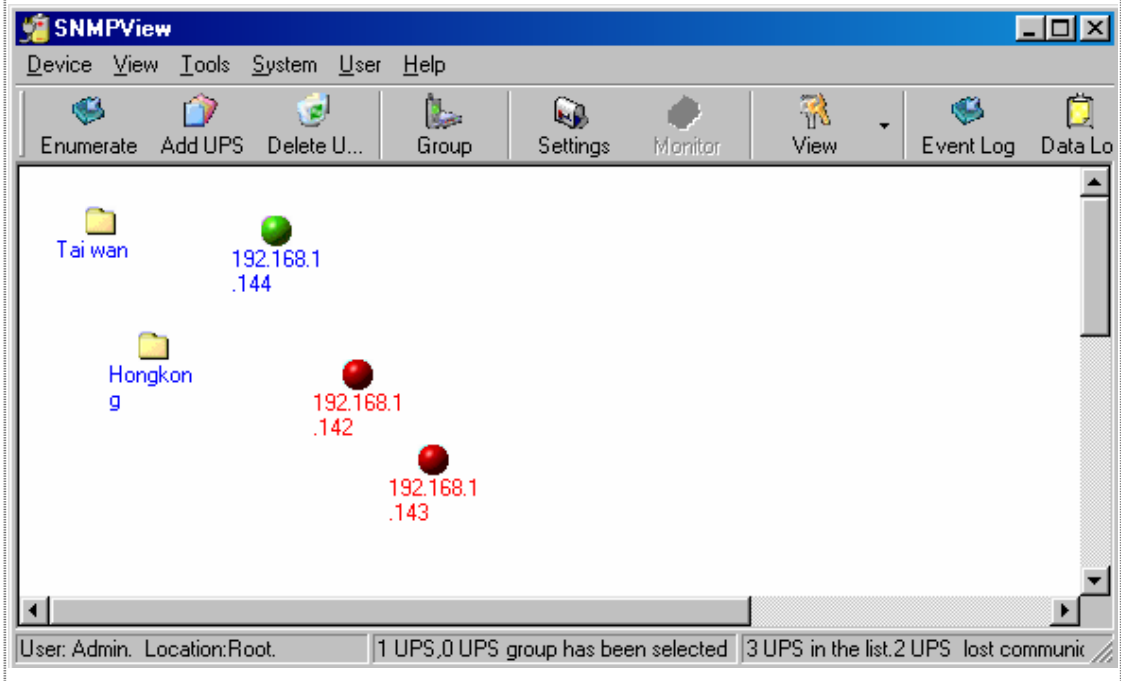
5.2.3 Details

Detailed Information displays NetAgent UPS's IP address, name, input voltage, output voltage, battery capacity, load, frequency..etc.


SNMPView
Device View Tools System User Help
Enumerate Add UPS Delete U... Group Settings Monitor View Event Log Data Lo
UPS Host ... Location Outp... Conn... Temp... Loadi... Outp... Capa... AC St...
192.168.1.144 UPS ... My Office AC m... Conn... 35.0 100.0 208.4 100% AC N...
192.168.1.143
192.168.1.142
Tai wan
Hongkong
User: Admin. Location:Root.
0 UPS,0 UPS group has been selected
3 UPS in the list.2 UPS lost communic

5.2.4 Map Background

Import a map image (JPG) by right click on the main screen and move NetAgent UPS icon to its suitable location.



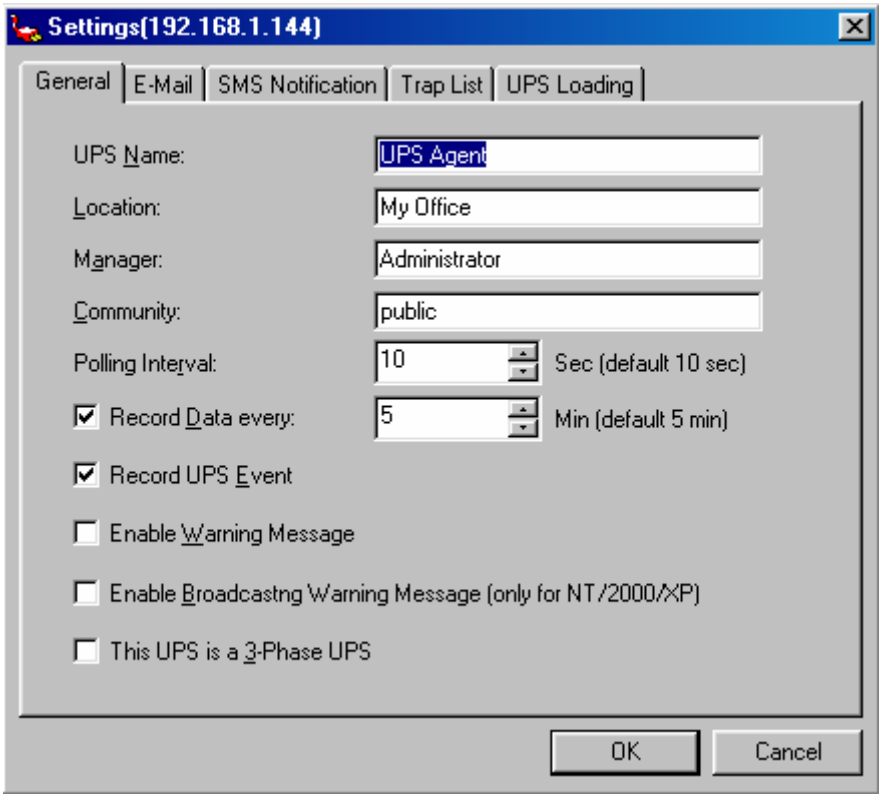
5.3 Tools(P)

Highlight NetAgent UPS device and configure.

5.3.1 Settings

General

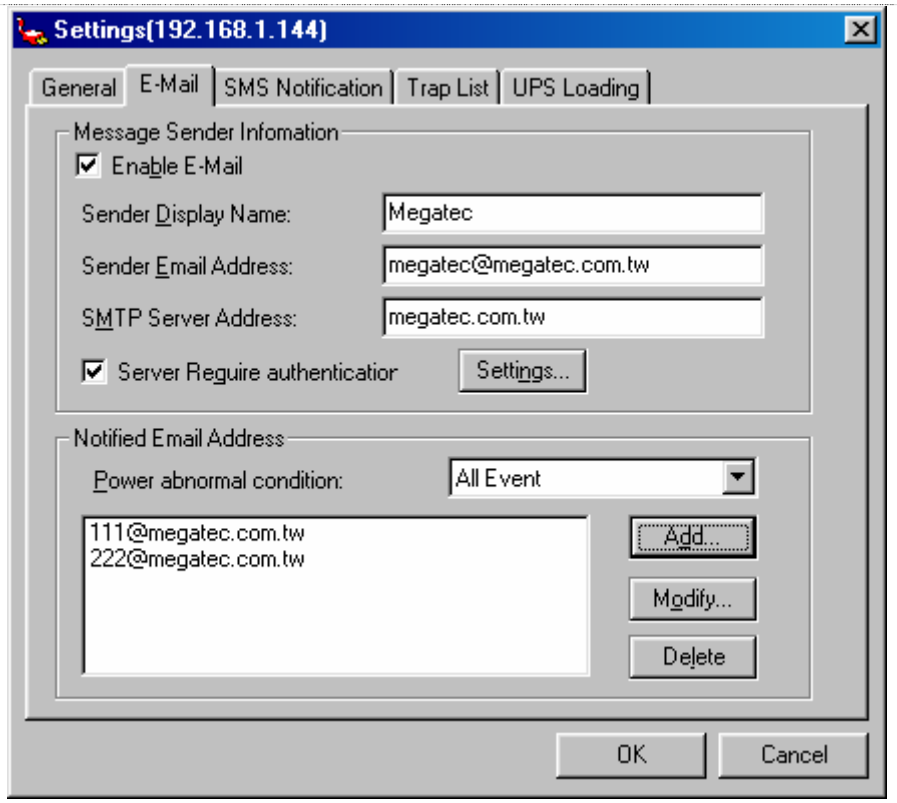
This to configure UPS information, record UPS event, enable trap alarm..etc



Email

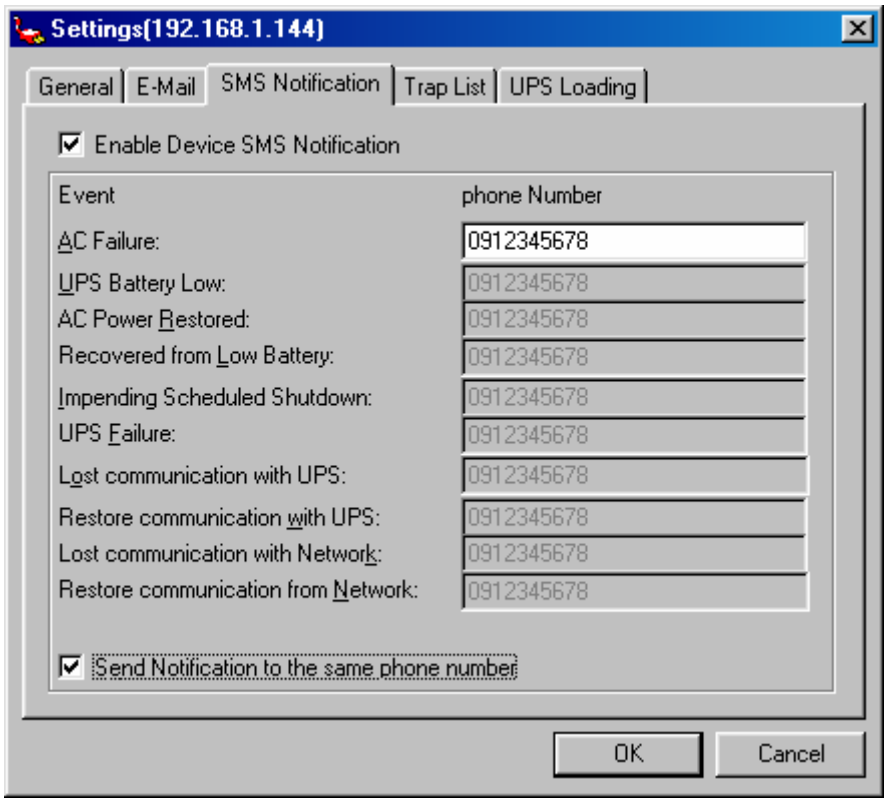
Send email notification when event occurs

- Sender Display name: Please enter sender display name
- Sender email address: Please enter sender email address
- SMTP server address: Enter SMTP address, IP address or domain name.
- Server requires authentication: Click Setting, then enter your Account Name and Account Password.
- Notified Email Address: Click add and enter new email address.



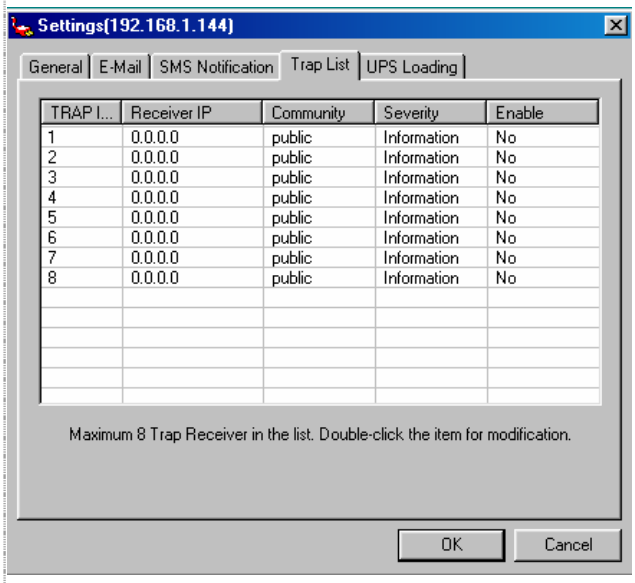
SMS Notification

Send SMS when event occurs



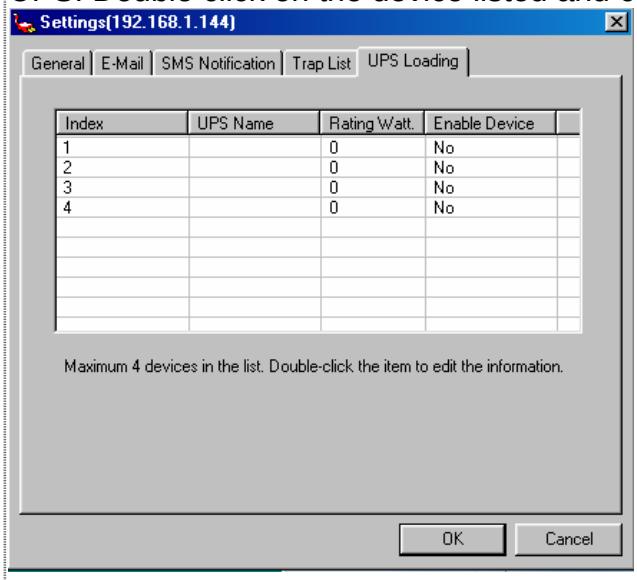
Trap List

Double click on the trap that listed and configure



UPS Loading

To configure all the other devices and its load that connects with NetAgent UPS. Double click on the device listed and configure

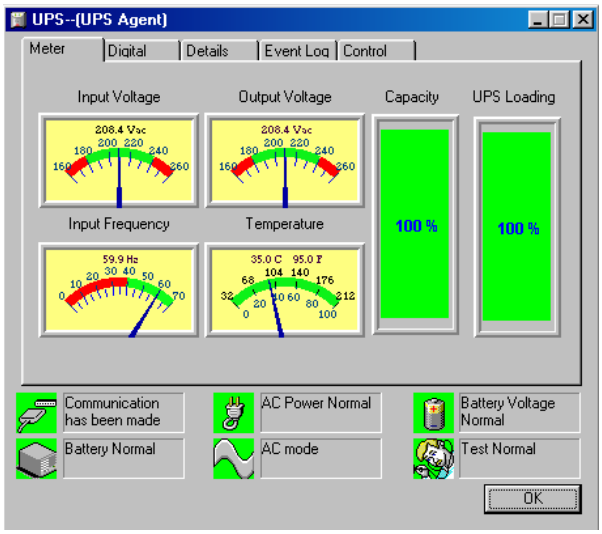


5.3.2 UPS Monitor

Highlight NetAgent UPS device and configure. Or right click on the highlighted device and click on monitor device

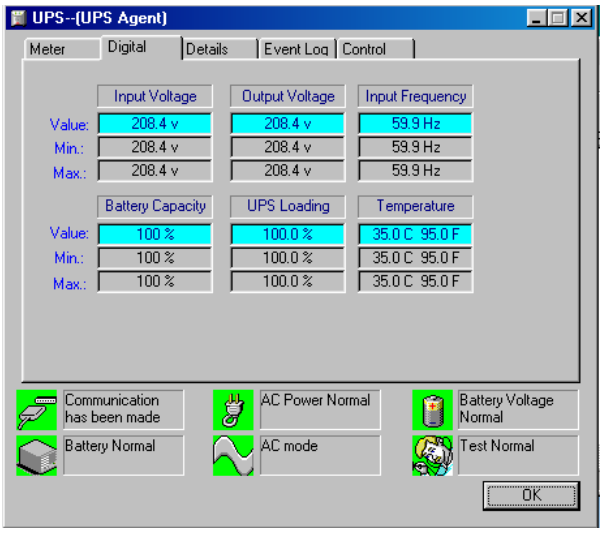
Meter

Display NetAgent UPS information such as input voltage, output voltage, temperature, capacity..etc in diagram.



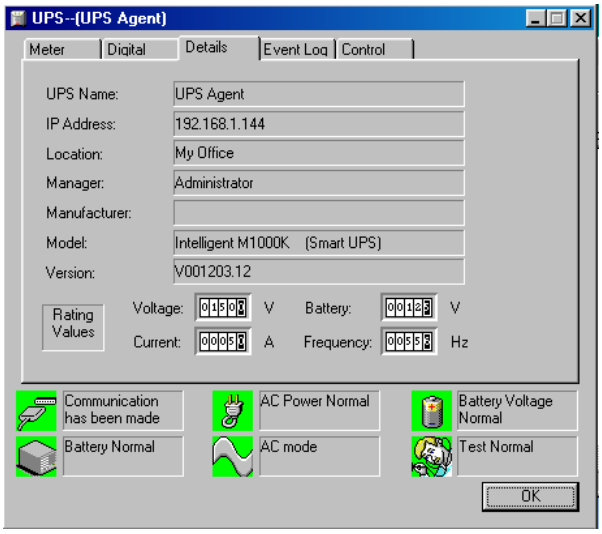
Digital

Display NetAgent UPS information such as input voltage, output voltage, temperature, capacity..etc in digital.



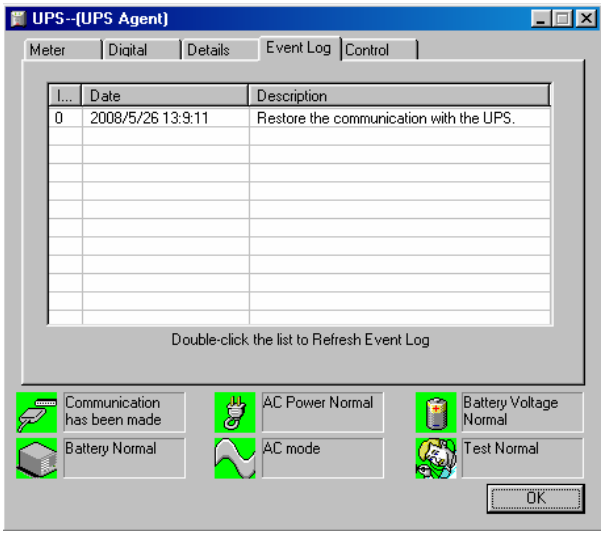
Details

Display NetAgent UPS's IP address, location, user, manufacturer and all other detailed information



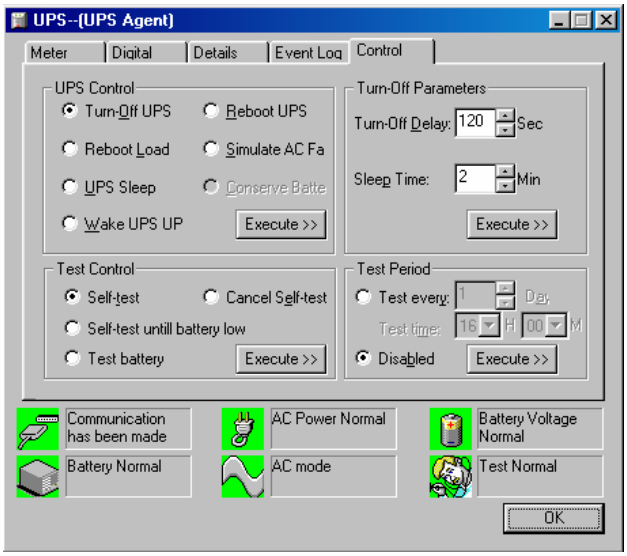
Event Log

This display event happened with date/time and its description



Control

- Turn Off UPS: To shutdown UPS
- Reboot UPS: UPS shuts down in 12 seconds, and reboot in 1 minute.
- LED: Enable LED flashes. (UPS must supports it)
- Cancel Shutdown: To cancel UPS shutdown. (UPS must supports it)
- Simulate AC Fail: Simulate AC failed to UPS
- UPS Sleep: UPS enter sleep mode
- Economize UPS Battery: Turn off UPS load to save UPS battery capacity



Once choose the function that to perform and click on “Execute”

Note: UPS must supports those function to perform it

Test Control

- UPS Self Test: Execute UPS Self Test
- UPS Calibration Test: Execute UPS Calibration Test

Turn-Off Parameters

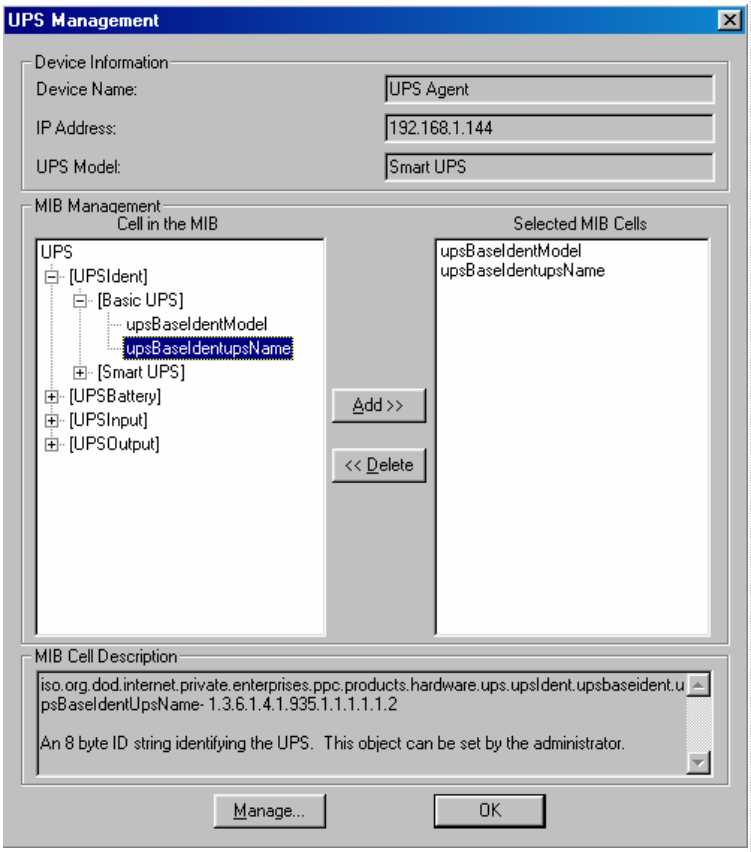
- Turn-Off Delay: To set the buffering time for UPS before shutdown
- Sleep Time: To set UPS sleep time.

Test Period

- Unknown: This defined by UPS configuration.
- Two weeks: Perform UPS test every two weeks
- Weekly: Perform UPS test every week
- Disable: Do not perform UPS test

5.3.3 UPS Management

To configure SNMP of its NetAgent UPS

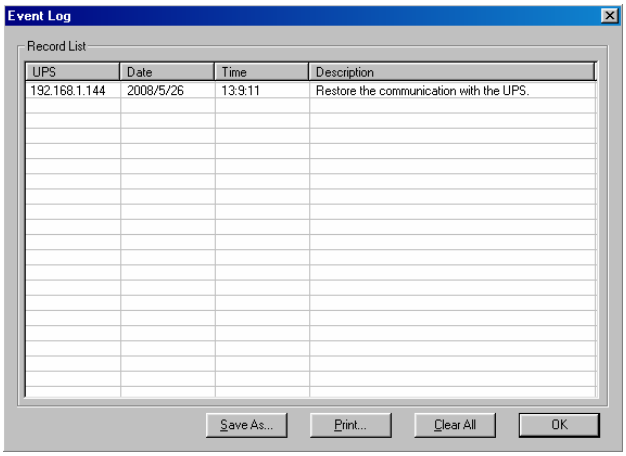


5.4 System(S)

To view event log, data log and configuration

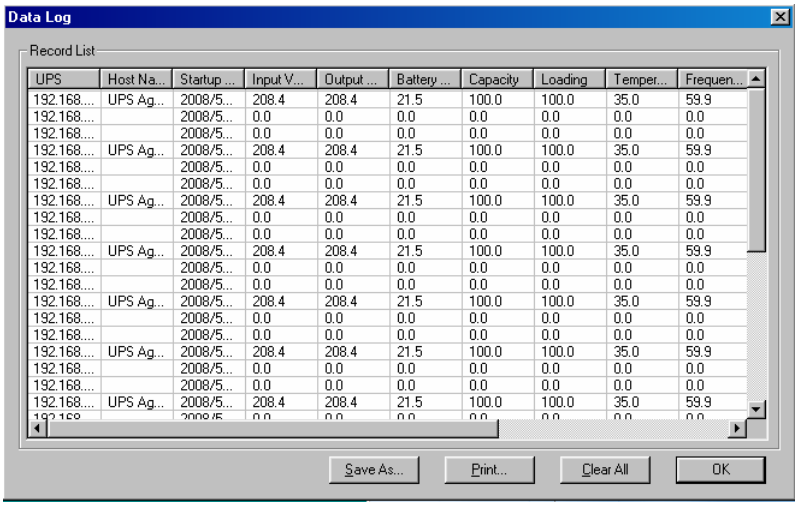
5.4.1 Event Log

Display event log , date/time and description of all NetAgent UPS



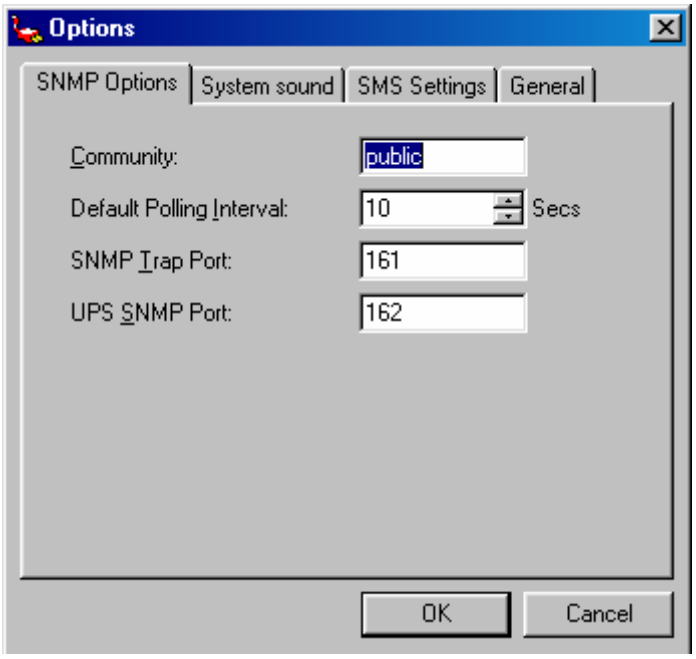
5.4.2 Data Log

Display input voltage, output voltage , frequency ,load..etc of all NetAgent UPS



5.4.3 SNMP Option

To set NetAgent UPS's parameter

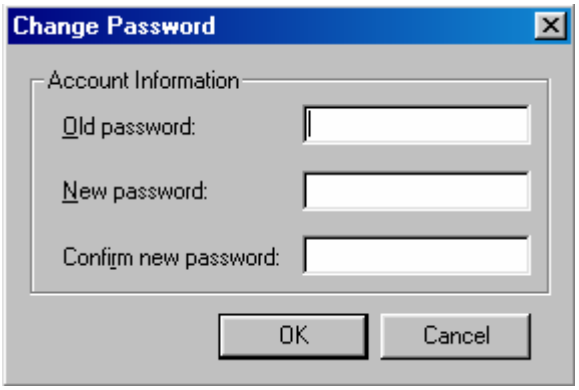


5.5 User(U)

Total of 8 users account can be created to manage and control its NetAgent UPS

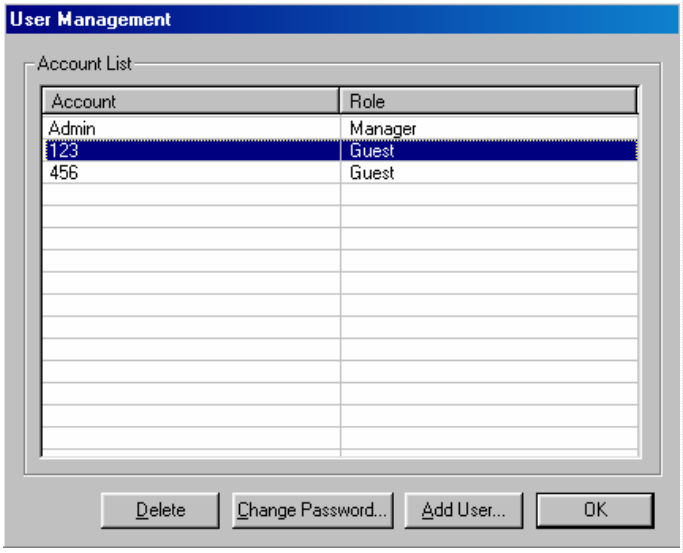
5.5.1 Change Password

To change existing user's password to login



5.5.2 User Management

This only for Admin user to add, edit or remote other user's info

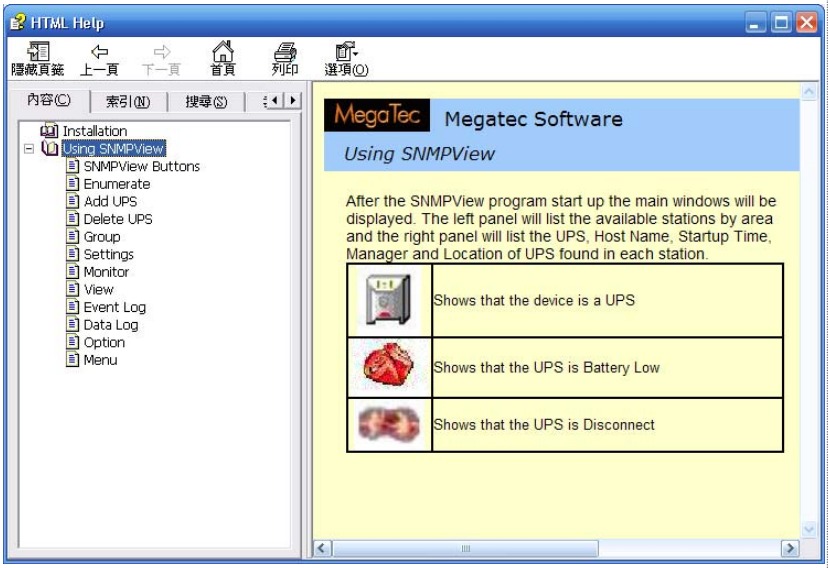


5.6 Help(H)

Display the current SNMPView version, and operation information

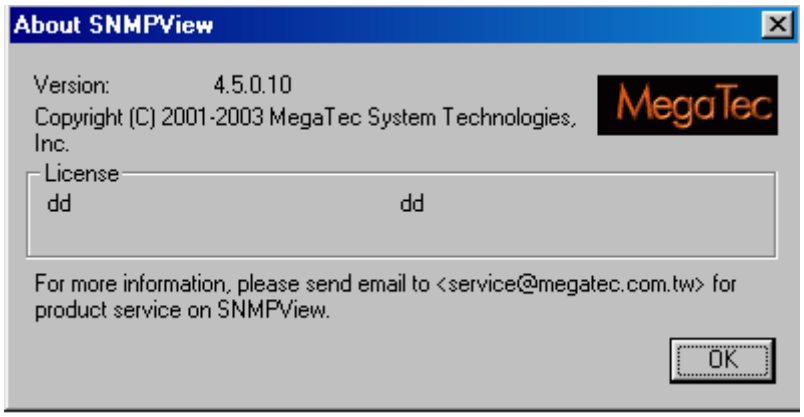
5.6.1 HTML Help

This to check the operation of SNMPView



5.6.2 About

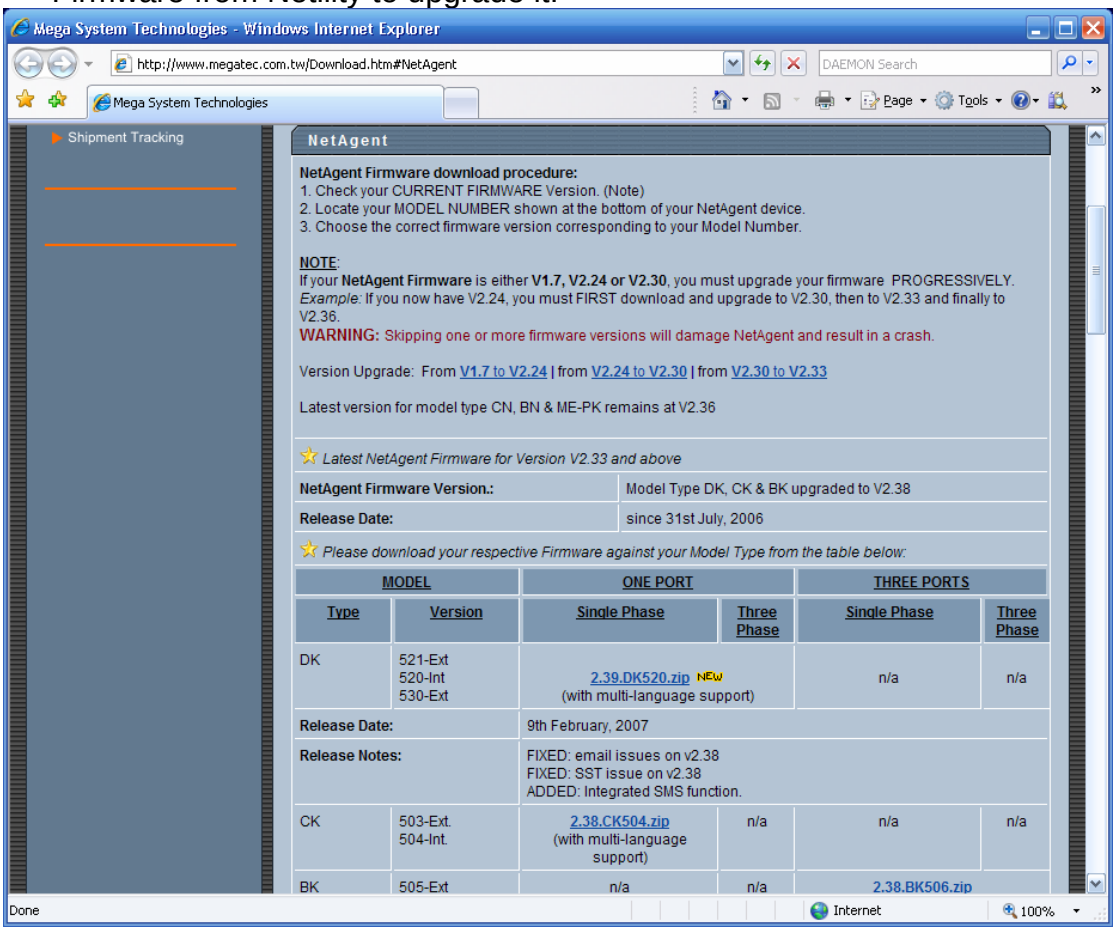
Display the current SNMPView version, Copyright information and product service contact.



Appendix - Update the firmware of NetAgent UPS

NetAgent provides the following convenient methods for user to update the latest firmware of the NetAgent

1. Click firmware upgrade under About of NetAgent webpage and it would link to Megatec's server to download the latest firmware. Then use Download Firmware from Netility to upgrade it.

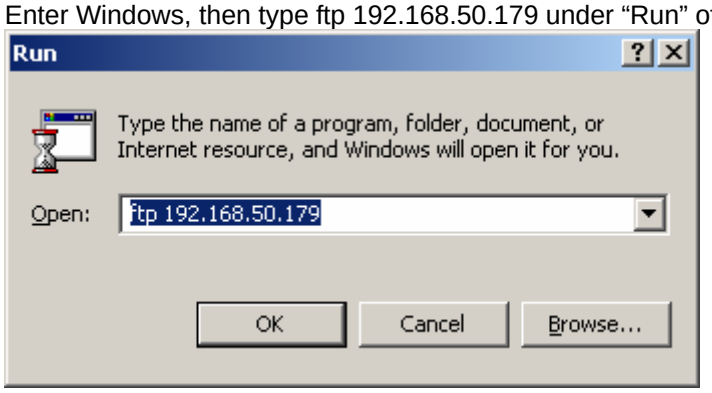

Mega System Technologies - Windows Internet Explorer
http://www.megatec.com.tw/Download.htm#NetAgent
Mega System Technologies
Shipment Tracking
NetAgent
NetAgent Firmware download procedure:
1. Check your CURRENT FIRMWARE Version. (Note)
2. Locate your MODEL NUMBER shown at the bottom of your NetAgent device.
3. Choose the correct firmware version corresponding to your Model Number.
NOTE:
If your NetAgent Firmware is either V1.7, V2.24 or V2.30, you must upgrade your firmware PROGRESSIVELY.
Example: If you now have V2.24, you must FIRST download and upgrade to V2.30, then to V2.33 and finally to V2.36.
WARNING: Skipping one or more firmware versions will damage NetAgent and result in a crash.
Version Upgrade: From V1.7 to V2.24 | from V2.24 to V2.30 | from V2.30 to V2.33
Latest version for model type CN, BN & ME-PK remains at V2.36
Latest NetAgent Firmware for Version V2.33 and above
NetAgent Firmware Version.: Model Type DK, CK & BK upgraded to V2.38
Release Date: since 31st July, 2006
Please download your respective Firmware against your Model Type from the table below:
MODEL
ONE PORT
THREE PORTS
Type
Version
Single Phase
Three Phase
Single Phase
Three Phase
DK
521-Ext
520-Int
530-Ext
2.39.DK520.zip NEW
(with multi-language support)
n/a
n/a
Release Date:
9th February, 2007
Release Notes:
FIXED: email issues on v2.38
FIXED: SST issue on v2.38
ADDED: Integrated SMS function.
CK
503-Ext.
504-Int.
2.38.CK504.zip
(with multi-language support)
n/a
n/a
n/a
BK
505-Ext
n/a
n/a
2.38.BK506.zip
Done
Internet
100%

2. Use FTP to update (suitable for BK,CK,DK,BP,CP,DP using firmware version 2.35 and later)

The FTP is a easy and common way to upload the latest firmware into the NetAgent. Please follow the instruction below to update the firmware. If there is other FTP client application on your computer, that will also be fine to use it for updating the firmware.

For example: if wish to update the latest firmware of the NetAgent UPS which IP address is 192.168.50.179, then please operate with the steps below:

(1) Enter Windows, then type ftp 192.168.50.179 under “Run” of the “Start Menu”



(2) After executed, the systems will requests for the user name and password. Please enter “admin” under the user name and enter the password that was been set at Netility under password. If did not set before, then please enter the default value as user name: “admin” and nothing under password. (press “Enter”).
- Once the account and password been checked, the server will response with 230 OK to indicate Login succeeded.
- If entered wrong account and password, the server will response with 530 Not Logged in to indicate Login failed.

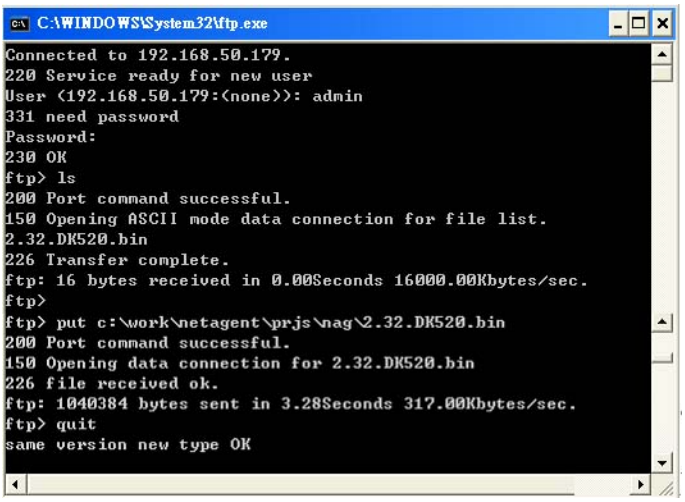
(3) Operation commands as followings:

-1s: This command is to request server to list up all the file and sub file under current Menu. User may finds out the firmware version of the NetAgent UPS of its IP.

-put<client’s file route>: This command is to ask the client to copy its specific file route to the Server point. User may use this method to upload the latest firmware to the remote NetAgent

-quit: This command is to allow the user to logout with the current username account as well as close the connection of FTP.

For example: The picture below is to upload the latest NetAgent firmware file (c:\work\netagent\prjs\nag\2.32.DK520.bin) which is in this computer to the NetAgent UPS with IP address of 192.168.50.179



3. Use IE browser to update (suitable for BK,CK,DK,BP,CP,DP version)

This method is to enter the account, password and IP address of the NetAgent UPS which the user wish to update under the website column. Once entered, user may see the current firmware version, and then please copy the latest firmware to here to complete the updating process.

Two method of entering:

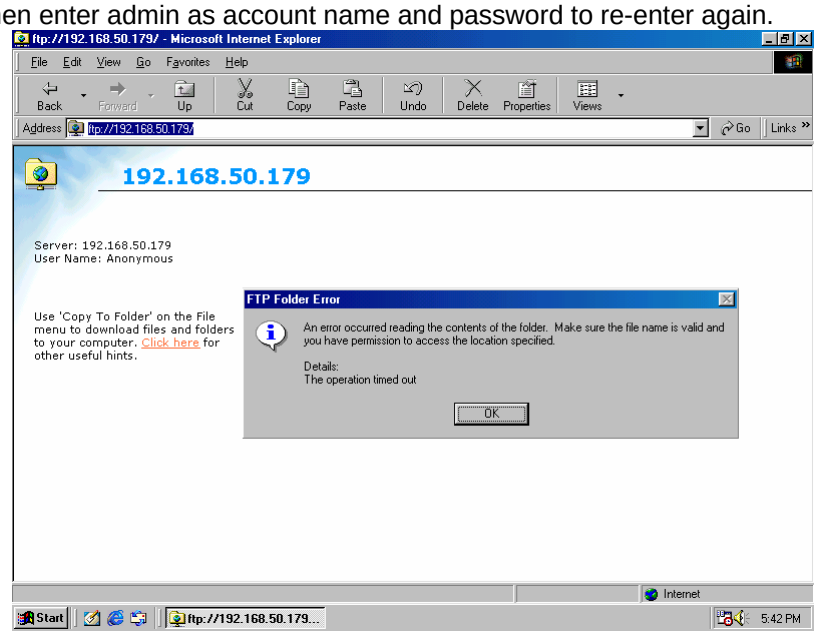
(1) **ftp://admin:***password*@**192.168.50.179**

Again, the password here is the one been set at Netility, if did not set anything before, then enter NetAgent's default value as:

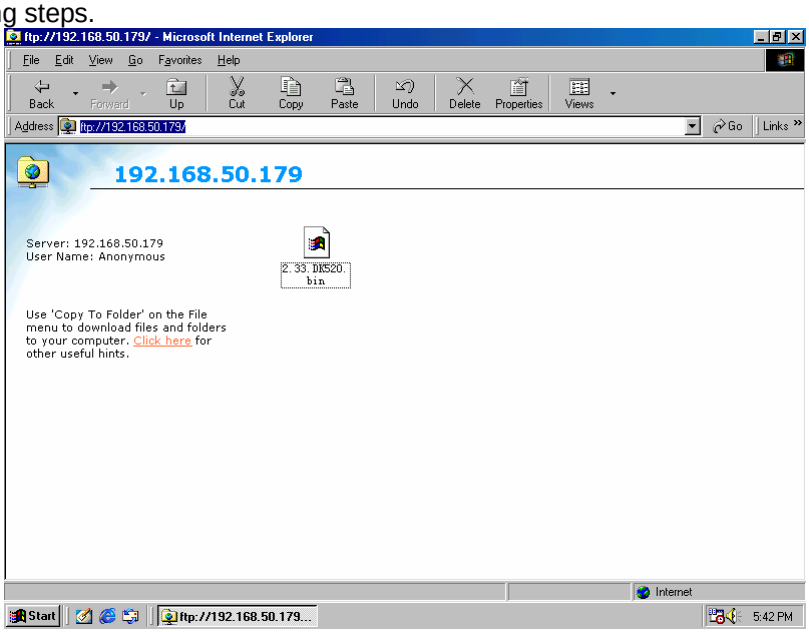
Account: admin

Neglect password (ftp://admin:@192.168.50.179)

(2) **ftp://192.168.50.179/** , when using this method to enter, the follow error message will be show. At this moment, select "**Enter Identity**" at the top left corner of file menu**.** Then enter admin as account name and password to re-enter again.


ftp://192.168.50.179/ - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address ftp://192.168.50.179/
Go Links
192.168.50.179
Server: 192.168.50.179
User Name: Anonymous
Use 'Copy To Folder' on the File menu to download files and folders to your computer. Click here for other useful hints.
FTP Folder Error
An error occurred reading the contents of the folder. Make sure the file name is valid and you have permission to access the location specified.
Details:
The operation timed out
OK
Internet
Start
ftp://192.168.50.179...
5:42 PM

Once the connection been established, the following window will be display. Then the user may transfer the latest firmware to here for the replacement in order to complete the updating steps.


ftp://192.168.50.179/ - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address ftp://192.168.50.179/
Go Links
192.168.50.179
Server: 192.168.50.179
User Name: Anonymous
2.33.DK520.bin
Use 'Copy To Folder' on the File menu to download files and folders to your computer. Click here for other useful hints.
Internet
Start
ftp://192.168.50.179...
5:42 PM